## Oracle® Beehive

Business Views

Release 2 (2.0.1.8)

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Documentation that describes the business reporting features of Oracle Beehive.



Oracle Beehive Business Views, Release 2 (2.0.1.8)

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## **Preface**

This guide describes the business reporting features of Oracle Beehive.

## **Audience**

This document is intended for users of Oracle Beehive Release 2.0.

## **Documentation Accessibility**

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## **Related Documents**

For more information, see the following documents in the Oracle Beehive Release 2 (2.0) documentation library:

#### **Administration Guides**

- Oracle® Beehive Administrator's Guide
- Oracle® Beehive Administrator's Reference Guide
- *Oracle*® *Beekeeper Online Help (Integrated UA)*
- Oracle® Beehive Integration Guide

#### **Application Development**

- Oracle® Beehive Application Developer's Guide
- Oracle® Beehive Java Content Repository Java API Reference
- Oracle® Beehive RESTful Web Services API Reference
- Oracle® Beehive SOAP Web Services API Reference

#### Installation Guides

- Oracle® Beehive Installation Guide for Linux
- Oracle® Beehive Installation Guide for Microsoft Windows
- Oracle® Beehive Installation Guide for Solaris Operating System
- Oracle® Beehive Installation Help (Integrated UA)

#### **Online Helps**

- Oracle® Beehive Central
- Oracle® Beehive Webmail
- Oracle® Beehive Standards-based Clients
- Oracle® Beehive Team Collaboration
- Oracle® Beehive Conferencing
- Oracle® Beehive Extensions for Outlook Supplemental Help and Release Notes
- Oracle® Beehive Extensions for Explorer Supplemental Help and Release Notes
- Oracle® Beehive Extensions for Explorer (OBEE) (Integrated UA)
- Oracle® Beehive Extensions for Outlook (OBEO) (Integrated UA)

#### **Mobile Devices**

- Oracle® Beehive Using Windows Mobile Device
- Oracle® Beehive Using iPhone or iPad
- Oracle® Beehive Using BlackBerry
- Oracle® Beehive Registering and Configuring Mobile Devices

#### **Planning Guides**

- Oracle® Beehive Concepts
- Oracle® Beehive Deployment Guide
- Oracle® Beehive Licensing Information

#### **Release Notes**

Oracle® Beehive Release Notes

## **Conventions**

The following text conventions are used in this document:

| Convention | Meaning  |
|------------|--|
| boldface   | Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.         |
| italic     | Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.                          |
| monospace  | Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter. |

## **Oracle Beehive Business Views**

This chapter describes Oracle Beehive Business Views. It includes the following sections:

- Overview of Business Views
- Types of Views
- Workspace Service Views
- Device Management Service Views
- Collaboration Service Views
- Message Delivery Service Views
- Mobility Service Views
- Resource Directory Services Views
- User Directory Service Views
- Creating Schema with Access Only to Oracle Beehive Views

### **Overview of Business Views**

Oracle Database is the information store for Oracle Beehive and, in addition to other data, contains a set of business views. A business view, or a view, is a tailored presentation of Oracle Beehive data.

Database administrators can query a view to obtain statistical reports of Oracle Beehive data. For instance, you can query a view to obtain reports about workspace count, quota usage, quota limits, and so on.

**Note:** Business views are different from data provided by Oracle Enterprise Manager Grid Control. A business view provides information about how users use resources rather than about system uptime or memory usage.

This section includes the following topics:

- Accessing a View
- Saving a View

### Accessing a View

Database administrators access views by logging on to Oracle Database as the BEE\_ CODE user. The BEE\_CODE user is an Oracle Beehive user who makes database transactions. The BEE\_CODE user can then query the view using a SQL query tool such as SQL\* Plus.

For example, to query the view bee\_team\_wspc\_members\_rv to get a count of all distinct user-typed members for all team workspaces, perform the following steps:

**1.** Start SQL\*Plus at the command prompt:

```
prompt> sqlplus /NOLOG
```

**2.** Connect to Oracle Database as the BEE\_CODE user:

```
SQL> CONNECT BEE_CODE/PASSWORD
```

3. You can either query a view or use the DESCRIBE command to get a list of all the columns in a view:

```
DESCRIBE bee_team_wspc_members_rv
```

The output of the command is as follows:

| Name           | Nu1. | Γ?   | Type    |
|----------------|------|------|---------|
|                |      |      |         |
| WORKSPACE_EID  | NOT  | NULL | RAW(22) |
| WORKSPACE_TYPE |      |      | CHAR(4) |
| NUM_MEMBERS    |      |      | NUMBER  |

#### **Performance Issues**

A view requires storage only for its definition. A view is not allocated any storage space because it does not actually contain any data. Instead, a view references a base table each time you query the view and displays the output.

So, administrators should consider that querying a view takes time and affects the database performance while the view is being queried.

## Saving a View

By default, the output of a view appears at the command prompt. However, you can store this output to a file by using the SQL\*Plus command SPOOL.

**Note:** If you are using the SQL query tool, then you can use a command offered by the SQL query tool you are using and which is similar in functionality to SPOOL.

For example, to append the output to the existing file NOTES, use the following command:

SPOOL NOTES APPEND

**See Also:** *SQL\*Plus User's Guide and Reference* for more information about the SPOOL command

## Types of Views

This section describes the following kinds of views:

- Regular Reporting Views: The names of these views end with \_rv. Results of regular views do not contain sensitive information.
- Sensitive Reporting Views: The names of these views end with \_s\_rv.

Most business views have both an \_rv and an \_s\_rv version; the only difference is that entity names are included in the \_s\_rv version.

## Regular Reporting Views

You can query a regular view to obtain non-sensitive information about the data contained in Oracle Beehive. Results of regular views do not contain sensitive information such as entity names of objects like files and workspaces. As per the naming conventions, regular views end with \_rv.

Example 1–1 shows information in a regular view.

Example 1–1 Information In a Regular View

| Name              | Null?    | Type         |
|-------------------|----------|--------------|
|                   |          |              |
| ENTERPRISE_EID    | NOT NULL | RAW(22)      |
| VISIBILITY        | NOT NULL | CHAR(1 CHAR) |
| NUM_WORKSPACES    |          | NUMBER       |
| QUOTA_USED        |          | NUMBER       |
| OVER_QUOTA        |          | CHAR(1)      |
| NUM_ORGANIZATIONS |          | NUMBER       |

## Sensitive Reporting Views

You can query a sensitive view to obtain sensitive information about the data contained in Oracle Beehive. Results of these views include entity names of objects such as files and workspaces.

For example, a sensitive view might contain information about the company budget and only a senior level executive of the finance division or the administrator can query it. As per the naming conventions, sensitive views end with an \_s\_rv.

Example 1–2 shows the information in a sensitive view.

Example 1-2 Information In a Sensitive View

| ENTERPRISE_EID NOT NULL RAW(22) ENTERPRISE_NAME VARCHAR2(1000 CHAR) VISIBILITY NOT NULL CHAR(1 CHAR) NUM_WORKSPACES NUMBER QUOTA_USED NUMBER OVER_OUTA CHAR(1) |  |
|--|--|
| OVER_QUOTA CHAR(1) NUM_ORGANIZATIONS NUMBER  |  |

**Note:** You can restrict access to sensitive views by creating a database user with restricted privileges. Such a user will have access only to regular views.

**See Also:** Chapter 4, "Configuring Privilege and Role Authorization" in *Oracle Database Security Guide*.

## **Workspace Service Views**

This section contains a comprehensive list of business views related to the Workspace Service. This section also includes sample queries that you can run for each view.

This section lists the following views:

- bee\_enterprises
- bee\_enterprise\_bonds
- bee\_enterprise\_users
- bee\_organizations
- bee\_team\_wspc\_members
- bee\_wspc\_member\_roles
- bee\_wspc\_role\_groups
- bee\_wspc\_role\_users
- bee\_wspc\_trash\_totals
- bee\_user\_markers
- bee\_user\_marker\_totals
- bee\_workspaces
- bee\_workspace\_documents
- bee\_workspace\_trash

### bee\_enterprises

This view provides a workspace count, organization count, quota usage, quota state, and basic properties such as name, EID, and visibility for all enterprises.

#### bee\_enterprises\_s\_rv

This sensitive view displays the following information:

| Name                            | Null? Type                            |
|---------------------------------|---------------------------------------|
| ENTERPRISE_EID ENTERPRISE NAME  | NOT NULL RAW(22)  VARCHAR2(1000 CHAR) |
| VISIBILITY                      | NOT NULL CHAR(1 CHAR)  NUMBER         |
| NUM_WORKSPACES QUOTA_USED       | NUMBER<br>NUMBER                      |
| OVER_QUOTA<br>NUM_ORGANIZATIONS | CHAR (1)<br>NUMBER                    |

#### bee\_enterprises\_rv

This regular view displays the following information:

| Name           | Null? Type            |
|----------------|-----------------------|
| ENTERPRISE_EID | NOT NULL RAW(22)      |
| VISIBILITY     | NOT NULL CHAR(1 CHAR) |
| NUM_WORKSPACES | NUMBER                |

| QUOTA_USED        | NUMBER  |
|-------------------|---------|
| OVER_QUOTA        | CHAR(1) |
| NUM ORGANIZATIONS | NUMBER  |

#### **Suggested Queries for This View**

**1.** Total space consumed by all enterprises:

```
SELECT SUM(quota_used) FROM bee_enterprises_rv;
```

Total space utilization by all enterprises which are not active/visible:

```
SELECT SUM(quota_used) AS total_size FROM bee_enterprises_rv
WHERE visibility != 'V';
```

**3.** Average quota usage (in bytes) per enterprise:

```
SELECT AVG(quota_used) FROM bee_enterprises_rv;
```

**4.** Space consumed by each enterprise:

```
SELECT enterprise_eid, quota_used, over_quota
FROM bee_enterprises_rv;
```

**5.** Number of enterprises over hard quota limits:

```
SELECT COUNT(*) FROM bee_enterprises_rv
WHERE over_quota = 'Y';
```

**6.** Number of organizations per enterprise:

```
SELECT enterprise_eid, num_organizations FROM bee_enterprises_rv;
```

**7.** Number of workspaces per enterprise:

```
SELECT enterprise_eid, num_workspaces FROM bee_enterprises_rv;
```

**8.** Average number of organizations per enterprise:

```
SELECT AVG(num_organizations) FROM bee_enterprises_rv;
```

**9.** Average number of workspaces per enterprise:

```
SELECT AVG(num_workspaces) FROM bee_enterprises_rv;
```

## bee\_enterprise\_bonds

This view provides bond properties such as EID, name, type, root type, root EID, and modification time for each enterprise, allowing for aggregation queries on bonds per enterprise.

#### bee\_enterprise\_bonds\_s\_rv

| Name                  | Null?   | Type            |       |
|-----------------------|---------|-----------------|-------|
| ENTERPRISE_EID        | NOT NUL | L RAW(22)       |       |
| ENTERPRISE_NAME       |         | VARCHAR2 (1000  | CHAR) |
| ENTERPRISE_VISIBILITY | NOT NUL | L CHAR(1 CHAR)  |       |
| BOND_EID              | NOT NUL | L RAW(22)       |       |
| BOND_NAME             | NOT NUL | L VARCHAR2(1000 | CHAR) |

| BOND_TYPE        | NOT NULL VARCHAR2(1 CHAR)  |
|------------------|----------------------------|
| BOND_ROOT_EID    | NOT NULL RAW(22)           |
| BOND_ROOT_TYPE   | NOT NULL VARCHAR2 (4 CHAR) |
| BOND_MODIFIED_ON | NOT NULL TIMESTAMP(6)      |
| BOND_DELETED     | NOT NULL CHAR(1 CHAR)      |

#### bee\_enterprise\_bonds\_rv

This regular view displays the following information:

| Name                  | Null  | ?    | Type              |
|-----------------------|-------|------|-------------------|
|                       |       |      |                   |
| ENTERPRISE_EID        | NOT I | NULL | RAW(22)           |
| ENTERPRISE_VISIBILITY | NOT I | NULL | CHAR (1 CHAR)     |
| BOND_EID              | NOT I | NULL | RAW(22)           |
| BOND_TYPE             | NOT I | NULL | VARCHAR2(1 CHAR)  |
| BOND_ROOT_EID         | NOT I | NULL | RAW(22)           |
| BOND_ROOT_TYPE        | NOT I | NULL | VARCHAR2 (4 CHAR) |
| BOND_MODIFIED_ON      | NOT I | NULL | TIMESTAMP(6)      |
| BOND_DELETED          | NOT I | NULL | CHAR (1 CHAR)     |
|                       |       |      |                   |

#### Suggested Queries for This View

**1.** Total number of bonds in each enterprise:

```
SELECT enterprise_eid,
      enterprise_visibility,
      COUNT(bond_eid) as num_bonds
FROM bee_enterprise_bonds_rv
GROUP BY enterprise_eid, enterprise_visibility
ORDER BY num_bonds DESC;
```

2. Number of bonds of type related materials in each enterprise. Use F for follow up and D for discuss this bonds:

```
SELECT enterprise_eid,
      enterprise_visibility,
      COUNT(bond_eid) as num_related_bonds
FROM bee_enterprise_bonds_rv
WHERE bond_type = 'R'
GROUP BY enterprise_eid, enterprise_visibility
ORDER BY num_related_bonds DESC;
```

**3.** Number of bonds with root of type document in each enterprise:

```
SELECT enterprise_eid,
     enterprise_visibility,
      COUNT(bond_eid) as num_docroot_bonds
FROM bee_enterprise_bonds_rv
WHERE bond_root_type = 'adoc'
GROUP BY enterprise_eid, enterprise_visibility
ORDER BY num_docroot_bonds DESC;
```

**4.** Average number of bonds per enterprise:

```
SELECT AVG(num_bonds) as avg_num_bonds
FROM (SELECT COUNT(bond_eid) as num_bonds
       FROM bee_enterprise_bonds_rv
       GROUP BY enterprise_eid);
```

**5.** Number of bonds of each type in the system:

```
SELECT DECODE (bond_type, 'R', 'RELATED_MATERIALS',
                        'F', 'FOLLOW_UP',
                        'D', 'DISCUSS_THIS') as bond_type,
      COUNT(bond_eid) as num_bonds
FROM bee_enterprise_bonds_rv
GROUP BY bond_type
ORDER BY bond_type;
```

**6.** Number of bonds with root of each entity type in the system:

```
SELECT bond_root_type as bond_root_type,
      COUNT(bond_eid) as num_bonds
FROM bee_enterprise_bonds_rv
GROUP BY bond_root_type
ORDER BY bond_root_type;
```

### bee\_enterprise\_users

This view provides a user count for all enterprises.

#### bee\_enterprise\_users\_s\_rv

This sensitive view displays the following information:

| Name            | Null? Type            |
|-----------------|-----------------------|
| ENTERPRISE_EID  | NOT NULL RAW(22)      |
| ENTERPRISE_NAME | VARCHAR2(1000 CHAR)   |
| VISIBILITY      | NOT NULL CHAR(1 CHAR) |
| NUM_USERS       | NUMBER                |

#### bee\_enterprise\_users\_rv

This regular view displays the following information:

| 1 | Name           | Null? |      | Type    |       |
|---|----------------|-------|------|---------|-------|
|   | ENTERPRISE_EID | NOT 1 | NULL | RAW(22) |       |
|   | VISIBILITY     | NOT 1 | NULL | CHAR (1 | CHAR) |
|   | NUM_USERS      |       |      | NUMBER  |       |

#### **Suggested Queries for This View**

**1.** Average number of users per enterprise:

```
SELECT AVG(num_users) FROM bee_enterprise_users_rv;
```

**2.** Ten most populous enterprises and their user counts:

```
SELECT * FROM
 (SELECT enterprise_eid, visibility, num_users
 FROM bee_enterprise_users_rv
 ORDER BY num_users DESC)
WHERE ROWNUM <= 10;
```

### bee\_organizations

This view provides a total workspace count, child workspace count, quota usage, flags for top\_level and has\_child\_orgs, and basic properties such as name, EID, enterprise name, and enterprise EID for all organizations.

#### bee\_organizations\_s\_rv

This sensitive view displays the following information:

| Name  | Null? Type   |
|---|--|
| Name ORGANIZATION_EID ORGANIZATION_NAME VISIBILITY ENTERPRISE_EID ENTERPRISE_NAME TOTAL_WORKSPACES CHILD_WORKSPACES QUOTA_USED IS_TOPLEVEL_ORG HAS CHILD ORGS | Null? Type  NOT NULL RAW(22)  NOT NULL VARCHAR2(1000 CHAR)  NOT NULL CHAR(1 CHAR)  NOT NULL RAW(22)  VARCHAR2(1000 CHAR)  NUMBER  NUMBER  NUMBER  CHAR(1)  CHAR(1) |
| OVER_QUOTA  | CHAR(1)  |

#### bee\_organizations\_rv

This regular view displays the following information:

| Name             | Null?    | Type         |
|------------------|----------|--------------|
|                  |          |              |
| ORGANIZATION_EID | NOT NULI | RAW(22)      |
| VISIBILITY       | NOT NULI | CHAR(1 CHAR) |
| ENTERPRISE_EID   | NOT NULI | RAW(22)      |
| TOTAL_WORKSPACES |          | NUMBER       |
| CHILD_WORKSPACES |          | NUMBER       |
| QUOTA_USED       |          | NUMBER       |
| IS_TOPLEVEL_ORG  |          | CHAR(1)      |
| HAS_CHILD_ORGS   |          | CHAR(1)      |
| OVER_QUOTA       |          | CHAR(1)      |

### **Suggested Queries for This View**

**1.** Total space consumed by all organizations:

```
SELECT SUM(quota_used) FROM bee_organizations_rv;
```

**2.** Average quota usage (in bytes) per organization:

```
SELECT AVG(quota_used) FROM bee_organizations_rv;
```

**3.** Average quota usage (in bytes) per leaf organization:

```
SELECT AVG(quota_used) FROM bee_organizations_rv
WHERE has_child_orgs = 'N';
```

**4.** Average quota usage (in bytes) per root organization:

```
SELECT AVG(quota_used) FROM bee_organizations_rv
```

```
WHERE is_toplevel_org = 'Y';
```

**5.** Number of organizations over hard quota limits:

```
SELECT COUNT(*) FROM bee_organizations_rv
WHERE over_quota = 'Y';
```

Total number of workspaces in each organization:

```
SELECT organization_eid, total_workspaces FROM bee_organizations_rv;
```

**7.** Number of direct child workspaces in each organization:

```
SELECT organization_eid, child_workspaces FROM bee_organizations_rv;
```

**8.** Number of workspaces in each root organization:

```
SELECT organization eid, total_workspaces FROM bee_organizations_rv
WHERE is_toplevel_org = 'Y';
```

Average number of workspaces per organization:

```
SELECT AVG(total_workspaces) FROM bee_organizations_rv;
```

**10.** Average number of direct child workspaces per organization:

```
SELECT AVG(child_workspaces) FROM bee_organizations_rv;
```

11. Average number of workspaces per leaf organization:

```
SELECT AVG(total_workspaces) FROM bee_organizations_rv
WHERE has_child_orgs = 'N';
```

**12.** Distribution percentile for number of child workspaces in each organization. Percentile of all organizations with fewer or equal child workspaces:

```
SELECT organization_eid, child_workspaces,
      (CUME_DIST() OVER (ORDER BY child_workspaces NULLS FIRST)) as percentile
FROM bee_organizations_rv;
```

**13.** Number of direct child workspaces for median, or other percentile organizations:

```
SELECT organization_eid, child_workspaces, 0.50 as percentile
FROM bee_organizations_rv
WHERE child_workspaces = (SELECT (PERCENTILE_DISC(0.50) WITHIN GROUP
      (ORDER BY child_workspaces ASC NULLS FIRST)) FROM bee_organizations_rv);
```

## bee\_team\_wspc\_members

This view provides a count of all distinct user-typed members for all team workspaces, traversing the group hierarchy as needed.

#### bee\_team\_wspc\_members\_s\_rv

| Name           | Null?   | Туре            |       |
|----------------|---------|-----------------|-------|
| WORKSPACE EID  | NOT NUL | <br>L RAW(22)   |       |
| WORKSPACE_NAME |         | L VARCHAR2(1000 | CHAR) |
| WORKSPACE_TYPE |         | CHAR(4)         |       |
| NUM_MEMBERS    |         | NUMBER          |       |

#### bee\_team\_wspc\_members\_rv

This regular view displays the following information:

```
Null? Type
WORKSPACE_EID
                   NOT NULL RAW(22)
WORKSPACE_TYPE
                       CHAR (4)
NUM MEMBERS
                         NUMBER
```

#### Suggested Queries for This View

1. Average number of user members per team workspace:

```
SELECT AVG(num_members) FROM bee_team_wspc_members_rv;
```

Ten most populous team workspaces and their membership counts:

```
SELECT * FROM
 {SELECT workspace_eid, workspace_type, num_members
 FROM bee_team_wspc_members_rv
 ORDER BY num_members DESC)
WHERE ROWNUM <= 10;
```

3. Distribution percentile of number of members in each workspace. Percentile of all workspaces with fewer or equal members:

```
SELECT workspace_eid, num_members,
    (CUME_DIST() OVER (ORDER BY num_members NULLS FIRST)) as percentile
FROM bee_team_wspc_members_rv;
```

**4.** Number of members for median or other percentile workspaces:

```
SELECT workspace_eid, num_members, 0.50 as percentile
FROM bee_team_wspc_members_rv
WHERE num members = (SELECT (PERCENTILE DISC(0.50) WITHIN GROUP
      (ORDER BY num_members ASC NULLS FIRST)) FROM bee_team_wspc_members_rv);
```

### bee user markers

This view lists all markers, marker names, marker types, and marker classifications for markers owned by each user in the system. It allows for queries of marker counts or types by user and enterprise.

Oracle Beehive clients, such as Oracle Beehive Zimbra, represent markers as tags. For example, in Oracle Beehive Zimbra, you may tag your tasks, mail, contacts, folders, and other entities. You may use predefined tags that come with Oracle Beehive Zimbra or create your own. This enables you to group and organize your entities in categories you have defined yourself.

#### bee user markers s rv

```
Null? Type
Name
                                          NOT NULL RAW(22)
USER_EID
USER_NAME
                                                  VARCHAR2 (1000 CHAR)
USER_CREATED_ON
                                                  TIMESTAMP (6)
USER_MODIFIED_ON
                                                  TIMESTAMP(6)
USER_VISIBILITY
                                                   VARCHAR2 (1)
```

ENTERPRISE EID NOT NULL RAW(22)

ENTERPRISE\_NAME VARCHAR2 (1000 CHAR)

MARKER\_EID RAW(22)

MARKER\_NAME VARCHAR2 (1000 CHAR) MARKER\_TYPE VARCHAR2 (4 CHAR) MARKER CLASSIFICATION VARCHAR2 (1 CHAR) MARKER\_VISIBILITY CHAR (1 CHAR)

#### bee user markers rv

This regular view displays the following information:

| Name                  | Null?    | Туре              |
|-----------------------|----------|-------------------|
| USER_EID              | NOT NULL | RAW(22)           |
| USER_CREATED_ON       |          | TIMESTAMP(6)      |
| USER_MODIFIED_ON      |          | TIMESTAMP(6)      |
| USER_VISIBILITY       |          | VARCHAR2(1)       |
| ENTERPRISE_EID        | NOT NULL | RAW(22)           |
| MARKER_EID            |          | RAW(22)           |
| MARKER_TYPE           |          | VARCHAR2 (4 CHAR) |
| MARKER_CLASSIFICATION |          | VARCHAR2 (1 CHAR) |
| MARKER_VISIBILITY     |          | CHAR(1 CHAR)      |

#### Suggested Queries for This View

1. Number of markers of type label defined or owned by each user:

```
SELECT user_eid, enterprise_eid,
      COUNT(marker_eid) as num_labels
FROM bee_user_markers_rv
WHERE marker_type = 'labl'
GROUP BY user_eid, enterprise_eid
ORDER BY num_labels DESC;
```

**2.** Number of markers of type category defined or owned by each user:

```
SELECT user_eid, enterprise_eid,
 COUNT(marker_eid) as num_categories
FROM bee_user_markers_rv
WHERE marker_type = 'catg'
GROUP BY user_eid, enterprise_eid
ORDER BY num_categories DESC;
```

### bee\_user\_marker\_totals

This view provides a total marker count per user.

#### bee\_user\_marker\_totals\_s\_rv

| Name            | Null? Type           |
|-----------------|----------------------|
| USER_EID        | NOT NULL RAW(22)     |
| USER_NAME       | VARCHAR2 (1000 CHAR) |
| ENTERPRISE_EID  | NOT NULL RAW(22)     |
| ENTERPRISE_NAME | VARCHAR2(1000 CHAR)  |
| NUM MARKERS     | NUMBER               |

#### bee\_user\_marker\_totals\_rv

This regular view displays the following information:

| Name                    | Null?    | Туре   |
|-------------------------|----------|--------|
| USER_EID ENTERPRISE_EID | NOT NULL | , ,    |
| NUM_MARKERS             |          | NUMBER |

#### Suggested Queries for This View

1. Total number of markers defined or owned by each user:

```
SELECT * FROM bee_user_marker_totals_rv
ORDER BY num_markers DESC;
```

**2.** Average number of markers defined or owned by each user:

```
SELECT AVG(num_markers) FROM bee_user_marker_totals_rv;
```

3. Distribution percentile for number of markers for each user. Percentile of all users with fewer or equal markers:

```
SELECT user_eid, num_markers,
      (CUME_DIST() OVER (ORDER BY num_markers NULLS FIRST)) as percentile
FROM bee user marker totals rv
ORDER BY num_markers DESC;
```

**4.** Number of markers for median or other percentile users:

```
SELECT user_eid, num_markers, 0.50 as percentile
FROM bee_user_marker_totals_rv
WHERE num_markers =
      (SELECT (PERCENTILE_DISC(0.50) WITHIN GROUP
        (ORDER BY num markers ASC NULLS FIRST))
       FROM bee_user_marker_totals_rv);
```

## bee\_workspaces

This view provides information such as quota usage, quota limits, quota state, and basic properties such as workspace type, enterprise name, parent EID, and last modified time for all workspaces in the system.

#### bee workspaces s rv

| Name            | Null  | L?           | Туре                 |
|-----------------|-------|--------------|----------------------|
|                 |       |              |                      |
| WORKSPACE_EID   | NO.I. | NULL         | RAW(22)              |
| WORKSPACE_NAME  | NOT   | NULL         | VARCHAR2 (1000 CHAR) |
| PARENT_EID      | NOT   | NULL         | RAW(22)              |
| ENTERPRISE_EID  | NOT   | ${\tt NULL}$ | RAW(22)              |
| ENTERPRISE_NAME |       |              | VARCHAR2(1000 CHAR)  |
| WORKSPACE_TYPE  | NOT   | ${\tt NULL}$ | VARCHAR2 (4 CHAR)    |
| MODIFIED_ON     | NOT   | NULL         | TIMESTAMP(6)         |
| VISIBILITY      | NOT   | NULL         | CHAR(1 CHAR)         |
| QUOTA_USED      |       |              | NUMBER(38)           |
| QUOTA_STATE     |       |              | VARCHAR2(1 CHAR)     |
| SOFT_QUOTA      |       |              | NUMBER(38)           |

| HARD_QUOTA     | NUMBER (38) |
|----------------|-------------|
| PCT_SOFT_USAGE | NUMBER      |
| PCT_HARD_USAGE | NUMBER      |

#### bee\_workspaces\_rv

This regular view displays the following information:

| Name           | Null? Type                 |
|----------------|----------------------------|
| WORKSPACE_EID  | NOT NULL RAW(22)           |
| PARENT_EID     | NOT NULL RAW(22)           |
| ENTERPRISE_EID | NOT NULL RAW(22)           |
| WORKSPACE_TYPE | NOT NULL VARCHAR2 (4 CHAR) |
| MODIFIED_ON    | NOT NULL TIMESTAMP(6)      |
| VISIBILITY     | NOT NULL CHAR (1 CHAR)     |
| QUOTA_USED     | NUMBER (38)                |
| QUOTA_STATE    | VARCHAR2 (1 CHAR)          |
| SOFT_QUOTA     | NUMBER (38)                |
| HARD_QUOTA     | NUMBER (38)                |
| PCT_SOFT_USAGE | NUMBER                     |
| PCT_HARD_USAGE | NUMBER                     |

#### **Suggested Queries for This View**

**1.** Total number of workspaces:

```
SELECT COUNT(*) AS total_workspaces FROM bee_workspaces_rv;
```

**2.** Total number of team workspaces:

```
SELECT COUNT(*) AS team_workspaces FROM bee_workspaces_rv
WHERE workspace_type = 'wstm';
```

**3.** Total number of personal workspaces:

```
SELECT COUNT(*) AS personal_workspaces FROM bee_workspaces_rv
WHERE workspace_type = 'wspr';
```

**4.** Number of workspaces exceeding soft quota limits:

```
SELECT COUNT(*) AS workspaces_over_soft_quota FROM bee_workspaces_rv
WHERE quota_state = 'S';
```

**5.** Number of team workspaces exceeding soft quota limits:

```
SELECT COUNT(*) AS team_wspcs_over_soft_quota FROM bee_workspaces_rv
WHERE quota_state = 'S'
AND workspace_type = 'wstm';
```

**6.** Number of personal workspaces exceeding soft quota limits:

```
SELECT COUNT(*) AS pers_wspcs_over_soft_quota FROM bee_workspaces_rv
WHERE quota_state = 'S'
AND workspace_type = 'wspr';
```

**7.** Number of workspaces exceeding hard quota limits:

```
SELECT COUNT(*) AS workspaces_over_hard_quota FROM bee_workspaces_rv
WHERE quota_state = 'H';
```

**8.** Number of team workspaces exceeding hard quota limits:

```
SELECT COUNT(*) AS team_wspcs_over_hard_quota FROM bee_workspaces_rv
```

```
WHERE quota_state = 'H'
AND workspace_type = 'wstm';
```

**9.** Number of personal workspaces exceeding hard quota limits:

```
SELECT COUNT(*) AS pers_wspcs_over_hard_quota FROM bee_workspaces_rv
WHERE quota_state = 'H'
AND workspace_type = 'wspr';
```

**10.** Total space utilization by all workspaces:

```
SELECT SUM(quota_used) AS total_size FROM bee_workspaces_rv;
```

**11.** Total space utilization by all workspaces which are inactive or visible:

```
SELECT SUM(quota_used) AS total_size FROM bee_workspaces_rv
WHERE visibility != 'V';
```

**12.** Percentile of soft quota used by all workspaces which have explicit soft quota limits:

```
SELECT (SUM(quota_used) / SUM(soft_quota)) AS pct_soft_usage
FROM bee_workspaces_rv
WHERE soft_quota >= 0;
```

13. Percentile of hard quota used by all workspaces which have explicit hard quota limits:

```
SELECT (SUM(quota_used) / SUM(hard_quota)) AS pct_hard_usage
FROM bee_workspaces_rv
WHERE hard_quota >= 0;
```

**14.** Ten largest workspaces (by data size):

```
SELECT * FROM
 (SELECT workspace_eid, workspace_type, data_size
 FROM bee_workspaces_rv
 ORDER BY data size DESC)
WHERE ROWNUM <= 10:
```

**15.** Ten most recently modified workspaces:

```
SELECT * FROM
 (SELECT workspace_eid, workspace_type, modified_on
 FROM bee_workspaces_rv
 ORDER BY modified_on DESC)
WHERE ROWNUM <= 10;
```

**16.** Quota usage distribution percentile for all workspaces. Percentile of all workspaces with lower or equal quota usage for each workspace:

```
SELECT workspace_eid, quota_used,
      (CUME_DIST() OVER (ORDER BY quota_used NULLS FIRST)) as percentile
FROM bee_workspaces_rv;
```

**17.** Quota usage for median (or other percentile) workspaces:

```
SELECT workspace_eid, quota_used, 0.50 as percentile
FROM bee_workspaces_rv w
WHERE quota_used = (SELECT (PERCENTILE_DISC(0.50) WITHIN GROUP
              (ORDER BY quota_used ASC NULLS FIRST)) FROM bee_workspaces_rv);
```

### bee\_workspace\_documents

This view provides document properties such as creation time, modification time, size, document type, media (MIME) type, and visibility for all documents mapped to their containing workspaces. It allows for queries of document sizes or counts by workspace, document type, date ranges, and so on.

This view includes all documents contained in heterogeneous folders except the ones in trash or archive folders. Also, this view includes unversioned or family document entities while filtering out version entities as redundant.

#### bee\_workspace\_documents\_s\_rv

This sensitive view displays the following information:

| 1 | Name                  | Null | ? '  | Type                 |
|---|-----------------------|------|------|----------------------|
|   | WORKSPACE_EID         | NOT  | NULL | RAW(22)              |
|   | WORKSPACE_NAME        | NOT  | NULL | VARCHAR2(1000 CHAR)  |
|   | WORKSPACE_TYPE        | NOT  | NULL | VARCHAR2 (4 CHAR)    |
|   | WORKSPACE_MODIFIED_ON | NOT  | NULL | TIMESTAMP(6)         |
|   | WORKSPACE_VISIBILITY  | NOT  | NULL | CHAR(1 CHAR)         |
|   | DOCUMENT_EID          | NOT  | NULL | RAW(22)              |
|   | DOCUMENT_NAME         |      |      | VARCHAR2(1000 CHAR)  |
|   | DOCUMENT_CREATED_ON   | NOT  | NULL | TIMESTAMP(6)         |
|   | DOCUMENT_MODIFIED_ON  | NOT  | NULL | TIMESTAMP(6)         |
|   | DOCUMENT_VISIBILITY   | NOT  | NULL | CHAR(1 CHAR)         |
|   | DOCUMENT_DATA_SIZE    | NOT  | NULL | NUMBER(38)           |
|   | DOCUMENT_IS_HIDDEN    | NOT  | NULL | CHAR(1 CHAR)         |
|   | DOCUMENT_MEDIA_TYPE   |      |      | VARCHAR2 (4000 CHAR) |
|   | DOCUMENT_DATA_TYPE    |      |      | VARCHAR2(8)          |
|   |                       |      |      |                      |

#### bee workspace documents rv

This regular view displays the following information:

| Name                  | Null?  | Туре                 |
|-----------------------|--------|----------------------|
| WORKSPACE_EID         | NOT NU | JLL RAW(22)          |
| WORKSPACE_TYPE        | NOT NU | JLL VARCHAR2(4 CHAR) |
| WORKSPACE_MODIFIED_ON | NOT NU | JLL TIMESTAMP(6)     |
| WORKSPACE_VISIBILITY  | NOT NU | JLL CHAR(1 CHAR)     |
| DOCUMENT_EID          | NOT NU | JLL RAW(22)          |
| DOCUMENT_CREATED_ON   | NOT NU | JLL TIMESTAMP(6)     |
| DOCUMENT_MODIFIED_ON  | NOT NU | JLL TIMESTAMP(6)     |
| DOCUMENT_VISIBILITY   | NOT NU | JLL CHAR(1 CHAR)     |
| DOCUMENT_DATA_SIZE    | NOT NU | JLL NUMBER(38)       |
| DOCUMENT_IS_HIDDEN    | NOT NU | JLL CHAR(1 CHAR)     |
| DOCUMENT_MEDIA_TYPE   |        | VARCHAR2(4000 CHAR)  |
| DOCUMENT_DATA_TYPE    |        | VARCHAR2(8)          |

#### Suggested Queries for This View

**1.** Total number of documents for each workspace:

```
SELECT workspace_eid, workspace_type,
      COUNT (document eid) AS num documents
FROM bee_workspace_documents_rv
GROUP BY workspace_eid, workspace_type
ORDER BY num_documents DESC;
```

**2.** Total number of BLOB-stored documents for each workspace:

```
SELECT workspace_eid, workspace_type,
      COUNT (document_eid) AS num_blob_documents
FROM bee_workspace_documents_rv
WHERE document_data_type = 'BLOB'
GROUP BY workspace_eid, workspace_type
ORDER BY num_blob_documents DESC;
```

**3.** Total number of XDB or BLOB-stored documents for each workspace:

```
SELECT workspace_eid, workspace_type,
      COUNT(document_eid) AS num_xdbblob_documents
FROM bee_workspace_documents_rv
WHERE document_data_type = 'XDB_BLOB'
GROUP BY workspace_eid, workspace_type
ORDER BY num_xdbblob_documents DESC;
```

**4.** Total number of BFILE documents for each workspace:

```
SELECT workspace eid, workspace type,
      COUNT (document_eid) AS num_bfile_documents
FROM bee_workspace_documents_rv
WHERE document_data_type = 'BFILE'
GROUP BY workspace_eid, workspace_type
ORDER BY num_bfile_documents DESC;
```

**5.** Total number of documents with media type text for each workspace:

```
SELECT workspace_eid, workspace_type,
      COUNT(document_eid) AS num_text_documents
FROM bee_workspace_documents_rv
WHERE document_media_type like 'text%'
GROUP BY workspace_eid, workspace_type
ORDER BY num_text_documents DESC;
```

**6.** Total number of documents for all team and all personal workspaces:

```
SELECT DECODE(workspace_type, 'wstm', 'TEAM', 'wspr', 'PERSONAL')
              as workspace_type,
      COUNT (document_eid) AS num_documents
FROM bee_workspace_documents_rv
GROUP BY workspace_type
ORDER BY num_documents DESC;
```

**7.** Total space consumed by documents for each workspace:

```
SELECT workspace_eid, workspace_type,
      SUM(document_data_size) AS total_doc_size
FROM bee_workspace_documents_rv
GROUP BY workspace_eid, workspace_type
ORDER BY total_doc_size DESC;
```

**8.** Average document size for each workspace:

```
SELECT workspace_eid, workspace_type,
      AVG(document_data_size) AS avg_doc_size
FROM bee workspace documents rv
GROUP BY workspace_eid, workspace_type
ORDER BY avg_doc_size DESC;
```

**9.** Total size of documents for all team workspaces and all personal workspaces:

```
SELECT DECODE (workspace_type, 'wstm', 'TEAM', 'wspr', 'PERSONAL')
            as workspace_type,
     SUM(document_data_size) AS total_doc_size
FROM bee_workspace_documents_rv
GROUP BY workspace_type
ORDER BY total_doc_size DESC;
```

#### **10.** Ten workspaces with the most recently modified documents:

```
SELECT * FROM
 (SELECT * FROM
   (SELECT workspace_eid, workspace_type,
   MAX(document_modified_on) as latest_doc_modified_on
   FROM bee_workspace_documents_rv
   GROUP BY workspace_eid, workspace_type)
 ORDER BY latest_doc_modified_on DESC)
WHERE ROWNUM <= 10
```

### bee\_workspace\_trash

This view provides trash item properties such as item EID, item name, original entity EID, original name, original parent type, deleted by EID, deleted by type, deleted on, and data size for every item in a workspace trash folder. This view can be used to determine current trash usage statistics across workspaces and for specific workspaces.

#### bee\_workspace\_trash\_s\_rv

This sensitive view displays the following information:

| Name                      | Null?    | Туре                 |
|---------------------------|----------|----------------------|
| WORKSPACE_EID             | NOT NULL | RAW(22)              |
| WORKSPACE_NAME            | NOT NULL | VARCHAR2(1000 CHAR)  |
| WORKSPACE_TYPE            | NOT NULL | VARCHAR2 (4 CHAR)    |
| WORKSPACE_VISIBILITY      | NOT NULL | CHAR(1 CHAR)         |
| ITEM_EID                  |          | RAW(22)              |
| ITEM_NAME                 |          | VARCHAR2(1000 CHAR)  |
| ITEM_ENTITY_EID           |          | RAW(22)              |
| ITEM_ENTITY_TYPE          |          | VARCHAR2 (4 CHAR)    |
| ITEM_ORIGINAL_NAME        |          | VARCHAR2 (1000 CHAR) |
| ITEM_ORIGINAL_PARENT_EID  |          | RAW(22)              |
| ITEM_ORIGINAL_PARENT_TYPE |          | VARCHAR2 (4 CHAR)    |
| DELETED_BY_EID            |          | RAW(22)              |
| DELETED_BY_TYPE           |          | VARCHAR2 (4 CHAR)    |
| DELETED_ON                |          | TIMESTAMP(6)         |
| DATA_SIZE                 |          | NUMBER(38)           |

#### bee workspace trash rv

This regular view displays the following information:

| Name                 | Null?    | Туре              |
|----------------------|----------|-------------------|
|                      |          |                   |
| WORKSPACE_EID        | NOT NULL | RAW(22)           |
| WORKSPACE_TYPE       | NOT NULL | VARCHAR2 (4 CHAR) |
| WORKSPACE_VISIBILITY | NOT NULL | CHAR(1 CHAR)      |
| ITEM_EID             |          | RAW(22)           |
| ITEM_ENTITY_EID      |          | RAW(22)           |
| ITEM_ENTITY_TYPE     |          | VARCHAR2(4 CHAR)  |

ITEM\_ORIGINAL\_PARENT\_EID RAW(22) ITEM\_ORIGINAL\_PARENT\_TYPE VARCHAR2 (4 CHAR) DELETED\_BY\_EID RAW(22) DELETED\_BY\_TYPE VARCHAR2 (4 CHAR) DELETED\_ON TIMESTAMP (6) DATA SIZE NUMBER (38)

#### Suggested Queries for This View

**1.** Total number of trash items in each workspace:

```
SELECT workspace_eid, workspace_type,
      COUNT(item_eid) as num_trash_items
FROM bee_workspace_trash_rv
GROUP BY workspace_eid, workspace_type
ORDER BY num_trash_items DESC;
```

**2.** Total number of trash items of type document in each workspace:

```
SELECT workspace_eid, workspace_type,
      COUNT(item_eid) as num_trash_items
FROM bee_workspace_trash_rv
WHERE item_entity_type = 'adoc'
GROUP BY workspace_eid, workspace_type
ORDER BY num_trash_items DESC;
```

**3.** All trash items larger than 10MB in size:

```
SELECT workspace_eid, workspace_type,
     item_eid, item_entity_eid, item_entity_type,
      data_size
FROM bee workspace trash rv
WHERE data_size > 10485760
ORDER BY data_size DESC;
```

**4.** All trash items deleted before January 25, 2007:

```
SELECT workspace_eid, workspace_type,
     item_eid, item_entity_eid, item_entity_type,
      deleted_by_eid, deleted_on, data_size
FROM bee_workspace_trash_rv
WHERE deleted_on < TO_TIMESTAMP('25-Jan-07 12:00:00.000000', 'DD-Mon-RR
HH24:MI:SS.FF')
ORDER BY deleted_on;
```

## bee\_wspc\_member\_roles

This view lists every direct accessor and accessor type for each (workspace, role name) pair. It does not traverse the group hierarchy.

#### bee\_wspc\_member\_roles\_s\_rv

| Name           | Null? Type                    |
|----------------|-------------------------------|
| WORKSPACE EID  | NOT NULL RAW(22)              |
| WORKSPACE NAME | NOT NULL VARCHAR2 (1000 CHAR) |
| WORKSPACE_TYPE | NOT NULL VARCHAR2 (4 CHAR)    |
| ROLE_NAME      | NOT NULL VARCHAR2 (1000 CHAR) |
| ACCESSOR_EID   | NOT NULL RAW(22)              |

```
ACCESSOR TYPE
```

NOT NULL VARCHAR2 (4)

#### bee wspc member roles rv

This regular view displays the following information:

| Name           | Null? Type                    |
|----------------|-------------------------------|
| WORKSPACE_EID  | NOT NULL RAW(22)              |
| WORKSPACE_TYPE | NOT NULL VARCHAR2 (4 CHAR)    |
| ROLE_NAME      | NOT NULL VARCHAR2 (1000 CHAR) |
| ACCESSOR_EID   | NOT NULL RAW(22)              |
| ACCESSOR_TYPE  | NOT NULL VARCHAR2(4)          |

#### Suggested Queries for This View

1. Number of direct accessors of type user for each (workspace, role) pair:

```
SELECT workspace_eid, role_name,
    COUNT(accessor_eid) as num_user_accessors
FROM bee_wspc_member_roles_rv
WHERE accessor_type = 'user'
GROUP BY workspace_eid, role_name
ORDER BY workspace_eid, role_name;
```

**2.** Number of direct accessors of type group for each (workspace, role) pair:

```
SELECT workspace_eid, role_name,
     COUNT(accessor_eid) as num_group_accessors
FROM bee_wspc_member_roles_rv
WHERE accessor_type = 'grup'
GROUP BY workspace_eid, role_name
ORDER BY workspace_eid, role_name;
```

## bee\_wspc\_role\_groups

This view lists the complete distinct user count for each group accessor for each (workspace, role name) pair. It traverses the group hierarchy to calculate user totals.

#### bee\_wspc\_role\_groups\_s\_rv

This sensitive view displays the following information:

| Name            | Null? Type                    |
|-----------------|-------------------------------|
| WORKSPACE_EID   | NOT NULL RAW(22)              |
| WORKSPACE_NAME  | NOT NULL VARCHAR2 (1000 CHAR) |
| ROLE_NAME       | NOT NULL VARCHAR2 (1000 CHAR) |
| ACCESSOR_EID    | NOT NULL RAW(22)              |
| NUM_GROUP_USERS | NUMBER                        |

#### bee\_wspc\_role\_groups\_rv

This regular view displays the following information:

| Name          | Null?   | Туре                  |
|---------------|---------|-----------------------|
|               |         |                       |
| WORKSPACE_EID | NOT NUL | L RAW(22)             |
| ROLE_NAME     | NOT NUL | L VARCHAR2(1000 CHAR) |

```
ACCESSOR EID
NUM_GROUP_USERS
```

NOT NULL RAW(22) NUMBER

#### **Suggested Queries for This View**

1. Number of users for each accessor of type group for each (workspace, role) pair:

```
SELECT * FROM bee_wspc_role_groups_rv
ORDER BY workspace_eid, role_name, accessor_eid;
```

**2.** Total number of group users for each (workspace, role) pair:

```
SELECT workspace_eid, role_name,
      SUM(num_group_users) as num_group_users
FROM bee_wspc_role_groups_rv
GROUP BY workspace_eid, role_name
ORDER BY workspace_eid, role_name;
```

### bee\_wspc\_role\_users

This view provides a total user count for each (workspace, role name) pair, including all users assigned both directly and indirectly by groups. Note that the group hierarchy is traversed to compute the user totals.

#### bee\_wspc\_role\_users\_s\_rv

This sensitive view displays the following information:

| Name             | Null | ? !  | Type                 |
|------------------|------|------|----------------------|
| WORKSPACE_EID    | NOT  | NULL | RAW(22)              |
| WORKSPACE_NAME   | NOT  | NULL | VARCHAR2(1000 CHAR)  |
| WORKSPACE_TYPE   | NOT  | NULL | VARCHAR2 (4 CHAR)    |
| ROLE_NAME        | NOT  | NULL | VARCHAR2 (1000 CHAR) |
| TOTAL ROLE USERS |      |      | NUMBER               |

#### bee wspc role users rv

This regular view displays the following information:

| Name             | Null?   | Туре                |
|------------------|---------|---------------------|
|                  |         |                     |
| WORKSPACE_EID    | NOT NUL | RAW(22)             |
| WORKSPACE_TYPE   | NOT NUL | VARCHAR2(4 CHAR)    |
| ROLE_NAME        | NOT NUL | VARCHAR2(1000 CHAR) |
| TOTAL_ROLE_USERS |         | NUMBER              |

#### Suggested Queries for This View

 Total number of users (both direct and from groups) for each (workspace,role) pair:

```
SELECT * from bee_wspc_role_users_rv
ORDER BY workspace_eid, role_name;
```

**2.** Ten workspaces with the most workspace-coordinator members:

```
SELECT * FROM
 (SELECT * from bee_wspc_role_users_rv
 WHERE role_name = 'workspace-coordinator'
```

```
ORDER BY total_role_users DESC)
WHERE ROWNUM <= 10;
```

### bee\_wspc\_trash\_totals

This view adds up the trash size for each workspace and can be used to determine trash size statistics across workspaces.

#### bee\_wspc\_trash\_totals\_s\_rv

This sensitive view displays the following information:

| Name                 | Null? Type                    |
|----------------------|-------------------------------|
|                      |                               |
| WORKSPACE_EID        | NOT NULL RAW(22)              |
| WORKSPACE_NAME       | NOT NULL VARCHAR2 (1000 CHAR) |
| WORKSPACE_TYPE       | NOT NULL VARCHAR2 (4 CHAR)    |
| WORKSPACE_VISIBILITY | NOT NULL CHAR (1 CHAR)        |
| TOTAL_TRASH_SIZE     | NUMBER                        |

#### bee\_wspc\_trash\_totals\_rv

This regular view displays the following information:

| Name                 | Null?  |                | Type             |
|----------------------|--------|----------------|------------------|
|                      |        |                |                  |
| WORKSPACE_EID        | NOT NU | $\mathtt{ULL}$ | RAW (22)         |
| WORKSPACE_TYPE       | NOT NU | ULL            | VARCHAR2(4 CHAR) |
| WORKSPACE_VISIBILITY | NOT NU | ULL            | CHAR(1 CHAR)     |
| TOTAL_TRASH_SIZE     |        |                | NUMBER           |

#### Suggested Queries for This View

1. Total space consumed by all trash items in each workspace:

```
SELECT workspace_eid, workspace_type, total_trash_size
FROM bee_wspc_trash_totals_rv
ORDER BY total_trash_size DESC;
```

**2.** Ten team workspaces with most trash space consumption:

```
SELECT * FROM
  (SELECT workspace_eid, workspace_type, total_trash_size
 FROM bee_wspc_trash_totals_rv
 WHERE workspace_type = 'wstm'
 ORDER BY total_trash_size DESC)
WHERE ROWNUM <= 10;
```

**3.** Average space consumed by trash items per workspace:

```
SELECT AVG(total_trash_size) as average_trash_size
FROM bee_wspc_trash_totals_rv;
```

**4.** Distribution percentile for total space consumed by trash items in each workspace. Percent of all workspaces with less than or equal trash space consumption:

```
SELECT workspace_eid, workspace_type, total_trash_size,
      (CUME_DIST() OVER (ORDER BY total_trash_size NULLS FIRST)) as percentile
FROM bee_wspc_trash_totals_rv;
```

```
Total trash space consumption for median (or other percentile) workspace(s):
SELECT workspace_eid, workspace_type, total_trash_size, 0.50 as percentile
FROM bee_wspc_trash_totals_rv
WHERE total_trash_size = (SELECT (PERCENTILE_DISC(0.50) WITHIN GROUP
        (ORDER BY total_trash_size ASC NULLS FIRST)) FROM bee_wspc_trash_
totals_rv);
```

## **Device Management Service Views**

This section describes the following views:

- dm\_applications
- dm\_devices
- dm\_device\_apps
- dm\_device\_cmds
- dm\_device\_logs
- dm\_dev\_profs\_to\_dev\_types

## dm\_applications

This view provides information about client applications:

### dm\_applications\_rv

| Null? | Туре                |
|-------|---------------------|
|       | , ,                 |
|       | NUMBER (5)          |
|       | VARCHAR2 (4000)     |
|       | VARCHAR2(1000 CHAR) |
|       | CHAR(1 CHAR)        |
|       | VARCHAR2(1000 CHAR) |
|       | VARCHAR2(1000 CHAR) |
|       | VARCHAR2(1000 CHAR) |
|       | VARCHAR2(1000 CHAR) |
|       | NOT NULL            |

## dm\_devices

This view provides information about devices and their users:

#### dm\_devices\_rv

| Name          | Null?    | Туре                |  |
|---------------|----------|---------------------|--|
| EID           | NOT NULL | RAW(22)             |  |
| SITE_ID       | NOT NULL | NUMBER(5)           |  |
| ENTERPRISE_ID | NOT NULL | NUMBER(5)           |  |
| OWNER_EID     | NOT NULL | RAW(22)             |  |
| OWNER_TYPE    | NOT NULL | VARCHAR2 (4)        |  |
| OWNER_SITE_ID | NOT NULL | NUMBER (5)          |  |
| CREATOR_EID   | NOT NULL | RAW(22)             |  |
| CREATOR_TYPE  | NOT NULL | VARCHAR2 (4)        |  |
| CREATED_ON    | NOT NULL | TIMESTAMP(0)        |  |
| NAME          |          | VARCHAR2(1000 CHAR) |  |
| DEVICE_ID     | NOT NULL | VARCHAR2(1000 CHAR) |  |

| DEV_INF_DTD_VERSION | VARCHAR2 (1000 CHAR) |
|---------------------|----------------------|
| SOFTWARE_VERSION    | VARCHAR2(1000 CHAR)  |
| OS                  | VARCHAR2(256 CHAR)   |
| PROCESSOR           | VARCHAR2(256 CHAR)   |
| DEVICE_CLASS        | VARCHAR2(256 CHAR)   |
| MANUFACTURER        | VARCHAR2(256 CHAR)   |
| MODEL               | VARCHAR2(256 CHAR)   |
| DEVICE_INFO         | SYS.XMLTYPE          |
| STATUS              | VARCHAR2 (20 CHAR)   |

## dm\_device\_apps

This view provides information about device applications:

### dm\_device\_apps\_rv

| Name           | Null?    | Туре                |
|----------------|----------|---------------------|
|                |          |                     |
| DEV_EID        | NOT NULL | RAW(22)             |
| DEV_SITE_ID    | NOT NULL | NUMBER (5)          |
| DEV_ENPR_ID    | NOT NULL | NUMBER (5)          |
| DEV_DEVICE_ID  | NOT NULL | VARCHAR2(1000 CHAR) |
| APP_EID        | NOT NULL | RAW(22)             |
| VER_VERSION    |          | VARCHAR2(1000 CHAR) |
| VER_VERSIONNUM | NOT NULL | NUMBER              |
| PATCH_PATCHNUM | NOT NULL | NUMBER              |

## dm\_device\_cmds

This view provides information about device commands:

### dm\_device\_cmds\_rv

| Name           | Null? Type                  |
|----------------|-----------------------------|
|                |                             |
| EID            | NOT NULL RAW(22)            |
| SITE_ID        | NOT NULL NUMBER(5)          |
| ENTERPRISE_ID  | NOT NULL NUMBER(5)          |
| CREATED_ON     | NOT NULL TIMESTAMP(6)       |
| EXECUTED_ON    | TIMESTAMP(0)                |
| EXECUTION_TIME | NUMBER (20)                 |
| ACTION         | NOT NULL VARCHAR2 (32 CHAR) |
| DEVICE_EID     | NOT NULL RAW(22)            |
| DEVICE_SITE_ID | NOT NULL NUMBER(5)          |
| STATUS         | NOT NULL VARCHAR2 (32 CHAR) |
| STATUS_MSG     | VARCHAR2 (1000 CHAR)        |

## dm\_device\_logs

This view provides information about device logs:

### dm\_device\_logs\_rv

| Name          | Null? Type          |           |
|---------------|---------------------|-----------|
| EID           | NOT NULL RAW(22)    |           |
| ENTERPRISE_ID | NOT NULL NUMBER(5)  |           |
| SITE_ID       | NOT NULL NUMBER(5)  |           |
| DEVICE_ID     | NOT NULL RAW(22)    |           |
| UPLOADED_ON   | TIMESTAMP           | (0)       |
| NAME          | NOT NULL VARCHAR2 ( | 500 CHAR) |

| APP_NAME          | NOT | NULL | VARCHAR2 (1000 | CHAR) |
|-------------------|-----|------|----------------|-------|
| STREAMID          |     |      | RAW(22)        |       |
| LOG_SIZE          |     |      | NUMBER         |       |
| VISIBILITY STATUS |     |      | CHAR(1)        |       |

### dm\_dev\_profs\_to\_dev\_types

This view provides information about device profiles:

### dm\_dev\_profs\_to\_dev\_types\_rv

| Name                      | Null?    | Туре                |
|---------------------------|----------|---------------------|
| DEV_TYPE_EID              | NOT NULL | RAW(22)             |
| DEV_TYPE_SITE_ID          | NOT NULL | NUMBER(5)           |
| DEV_TYPE_ENPR_ID          | NOT NULL | NUMBER (5)          |
| DEV_PROF_EID              | NOT NULL | RAW(22)             |
| DEV_PROF_SITE_ID          | NOT NULL | NUMBER(5)           |
| DEV_PROF_ENPR_ID          | NOT NULL | NUMBER(5)           |
| DEV_INF_DTD_VERSION       |          | VARCHAR2(1000 CHAR) |
| DEV_NAME                  |          | VARCHAR2(1000 CHAR) |
| DEV_TYPE_SOFTWARE_VERSION |          | VARCHAR2(1000 CHAR) |
| DEV_TYPE_OS               |          | VARCHAR2(256 CHAR)  |
| DEV_TYPE_PROCESSOR        |          | VARCHAR2(256 CHAR)  |
| DEV_TYPE_DEVICE_CLASS     |          | VARCHAR2(256 CHAR)  |
| DEV_TYPE_MANUFACTURER     |          | VARCHAR2(256 CHAR)  |
| DEV_TYPE_MODEL            |          | VARCHAR2(256 CHAR)  |
| DEV_TYPE_STATUS           |          | VARCHAR2(256 CHAR)  |
| DEV_PROF_NAME             |          | VARCHAR2(1000 CHAR) |

## **Collaboration Service Views**

This section describes the following views related to e-mail messages:

- es\_message\_headers
- es\_message

## es\_message\_headers

This view provides information about e-mail message headers:

### es\_message\_headers\_rv

| Null?    | Type           |
|----------|----------------|
|          |                |
| NOT NULL | RAW(22)        |
|          | VARCHAR2(4000) |
|          |                |

### es\_message

This view provides messages about e-mail messages:

#### es\_message\_rv

| Name          | Null?    | Туре    |
|---------------|----------|---------|
|               |          |         |
| OWNER_EID     | NOT NULL | RAW(22) |
| FOLDER_EID    | NOT NULL | RAW(22) |
| MESSAGE_EID   | NOT NULL | RAW(22) |
| RECEIVED_DATE |          | DATE    |

MESSAGE\_SIZE SUBJECT

NUMBER NOT NULL VARCHAR2 (1000 CHAR)

## **Message Delivery Service Views**

This section describes the view mds\_delivery\_status:

### mds\_delivery\_status

This view provides information about the delivery status of e-mail messages.

#### mds\_delivery\_status\_rv

| Null?    | Туре                       |
|----------|----------------------------|
|          |                            |
| NOT NULL | RAW(22)                    |
| NOT NULL | NUMBER (5)                 |
| NOT NULL | NUMBER (5)                 |
|          | RAW(22)                    |
|          | VARCHAR2 (4)               |
|          | RAW(22)                    |
| NOT NULL | VARCHAR2(128 CHAR)         |
| NOT NULL | VARCHAR2(128 CHAR)         |
|          | NOT NULL NOT NULL NOT NULL |

## **Mobility Service Views**

This section describes the following views:

- oma\_ds\_data\_operations
- oma\_ds\_data\_stores
- oma\_ds\_sessions
- oma\_ds\_user\_devices
- oma\_syncml\_logs

### oma\_ds\_data\_operations

This view provides information about the types of data that users may synchronize:

#### oma\_ds\_data\_operations\_rv

| Name             | Null? Type   | е           |
|------------------|--------------|-------------|
|                  |              |             |
| STORE_ID         | NOT NULL RAW | (22)        |
| USER_ID          | VAR          | CHAR2 (512) |
| DEVICE_ID        | NOT NULL VAR | CHAR2 (512) |
| SERVER_STORE_URI | VAR          | CHAR2 (128) |
| TGUID            | NUM          | BER         |
| LUID             | VAR          | CHAR2(1024) |
| OPERATION_TYPE   | VAR          | CHAR2(1)    |
| OPERATION_ORIGIN | VAR          | CHAR2(1)    |
| OPERATION_TIME   | TIM          | ESTAMP(6)   |

## oma\_ds\_data\_stores

This view provides information about the data itself that users synchronize:

### oma\_ds\_data\_stores\_rv

| Null?    | Type           |
|----------|----------------|
|          |                |
| NOT NULL | RAW(22)        |
| NOT NULL | VARCHAR2 (512) |
|          | VARCHAR2 (512) |
|          | VARCHAR2 (128) |
|          | TIMESTAMP(6)   |
|          | VARCHAR2 (128) |
|          | VARCHAR2 (128) |
| 1        | NOT NULL       |

## oma\_ds\_sessions

This view provides information about when users synchronize their data:

### oma\_ds\_sessions\_rv

| Name                     | Null?    | Туре           |
|--------------------------|----------|----------------|
| SESSION_ID               | NOT NULL | NUMBER         |
| CLIENT_SESSION_ID        |          | VARCHAR2 (128) |
| DEVICE_ID                |          | VARCHAR2 (512) |
| USER_ID                  |          | VARCHAR2 (512) |
| SESSION_STATUS           |          | VARCHAR2(30)   |
| SESSION_START_TIME       |          | TIMESTAMP(6)   |
| SESSION_END_TIME         |          | TIMESTAMP(6)   |
| SESSION_LAST_ACCESS_TIME |          | TIMESTAMP(6)   |
| SESSION_PROCESS_TIME     |          | NUMBER         |
| SESSION_AUTH_TYPE        |          | VARCHAR2(30)   |
| SESSION_AUTHENTICATED    |          | VARCHAR2(1)    |
| SYNC_PHASE               |          | VARCHAR2 (512) |
| SYNC_TYPE                |          | VARCHAR2 (512) |
| UPLOAD_BYTES             |          | NUMBER         |
| UPLOAD_ADD_COUNT         |          | NUMBER         |
| UPLOAD_DELETE_COUNT      |          | NUMBER         |
| UPLOAD_REPLACE_COUNT     |          | NUMBER         |
| DOWNLOAD_BYTES           |          | NUMBER         |
| DOWNLOAD_ADD_COUNT       |          | NUMBER         |
| DOWNLOAD_DELETE_COUNT    |          | NUMBER         |
| DOWNLOAD_REPLACE_COUNT   |          | NUMBER         |
| SESSION_MESSAGE          |          | CLOB           |

## oma\_ds\_user\_devices

This view provides information about the devices users use to synchronize their data:

### oma\_ds\_user\_devices\_rv

| Name           | Null?    | Туре           |
|----------------|----------|----------------|
| DEVICE_ID      | NOT NULL | VARCHAR2 (512) |
| USER_ID        |          | VARCHAR2 (512) |
| SESSION_ID     |          | NUMBER         |
| MAN            |          | VARCHAR2 (128) |
| MODEL          |          | VARCHAR2 (128) |
| LAST_SYNC_TIME |          | TIMESTAMP(6)   |

### oma\_syncml\_logs

This view provides information about the SyncML logs:

#### oma\_syncml\_logs\_rv

| Name              | Null?    | Туре           |
|-------------------|----------|----------------|
|                   |          |                |
| REQUEST_ID        | NOT NULL | NUMBER         |
| REQUEST_STATUS    |          | VARCHAR2(30)   |
| DEVICE_ID         |          | VARCHAR2 (512) |
| USER_ID           |          | VARCHAR2 (512) |
| SESSION_ID        |          | NUMBER         |
| CLIENT_SESSION_ID |          | VARCHAR2 (128) |
| MESSAGE_ID        |          | NUMBER (38)    |
| REQUEST_TIME      |          | TIMESTAMP(6)   |
| REQUEST_META      |          | VARCHAR2(4000) |
| RESPONSE_TIME     |          | TIMESTAMP(6)   |
| RESPONSE_META     |          | VARCHAR2(4000) |

## **Resource Directory Services Views**

This section describes the following views:

- bee\_resources
- bee\_resource\_bookings

### bee\_resources

This view provides information about resources:

#### bee\_resources\_s\_rv

| Name           | Null? Type                 |
|----------------|----------------------------|
|                |                            |
| EID            | NOT NULL RAW(22)           |
| ENTITY_TYPE    | NOT NULL VARCHAR2(4)       |
| SITE_ID        | NOT NULL NUMBER (5)        |
| ENTERPRISE_ID  | NUMBER (5)                 |
| NAME           | VARCHAR2 (1000 CHAR)       |
| IDENTIFIER     | VARCHAR2 (32 CHAR)         |
| RESOURCE_TYPE  | NOT NULL VARCHAR2 (1 CHAR) |
| CLASSIFICATION | VARCHAR2 (1000 CHAR)       |
| TIMEZONE_EID   | RAW(22)                    |
| TIMEZONE_NAME  | VARCHAR2 (1000 CHAR)       |
|                |                            |

RESOURCE\_TYPE may have a value of R (room), E (equipment), O (others), C (online conference) or A (audio conference).

### **Suggested Queries for This View**

All resources and their time zones:

```
SELECT name, timezone_name FROM bee_resources_s_rv;
```

## bee\_resource\_bookings

This view provides information about bookings of resources:

#### bee\_resource\_bookings\_s\_rv

| Name                           | Null?    | Туре              |
|--------------------------------|----------|-------------------|
|                                |          |                   |
| RESOURCE_EID                   | NOT NULL | RAW(22)           |
| ENTITY_TYPE                    | NOT NULL | VARCHAR2 (4 CHAR) |
| RESOURCE_SITE_ID               | NOT NULL | NUMBER (5)        |
| ENTERPRISE_ID                  | NOT NULL | NUMBER (5)        |
| OCCURRENCE_TYPE                | NOT NULL | VARCHAR2(1 CHAR)  |
| STARTTIME_TIMESTAMP            | NOT NULL | TIMESTAMP(6)      |
| STARTTIME_IS_DATEONLY          |          | VARCHAR2(1 CHAR)  |
| STARTTIME_IS_FLOATING          |          | VARCHAR2(1 CHAR)  |
| ENDTIME_TIMESTAMP              | NOT NULL | TIMESTAMP(6)      |
| ENDTIME_IS_DATEONLY            |          | VARCHAR2(1 CHAR)  |
| ENDTIME_IS_FLOATING            |          | VARCHAR2(1 CHAR)  |
| EFFECTIVE_INVITEE_TRANSPARENCY |          | VARCHAR2 (2 CHAR) |

OCCURRENCE\_TYPE should be M. EFFECTIVE\_INVITEE\_TRANSPARANCY is either Op (for Opaque which blocks time) or Te (for Tentative).

#### **Suggested Queries for This View**

**1.** All bookings related to the resource room1:

```
SELECT res.name, bookings.*
 FROM bee_resources_s_rv res,bee_resource_bookings_s_rv bookings
 WHERE res.name='room1' AND res.eid=bookings.resource_eid;
```

**2.** All bookings in the last twenty four hours:

```
SELECT res.name, bookings.*
  FROM bee_resources_s_rv res,bee_resource_bookings_s_rv bookings
 WHERE res.eid=bookings.resource_eid
   AND bookings.starttime_timestamp >
     SYS_EXTRACT_UTC(SYSTIMESTAMP) - NUMTODSINTERVAL(1,'DAY')
    AND bookings.endtime_timestamp <= SYS_EXTRACT_UTC(SYSTIMESTAMP);</pre>
```

**Note:** Bookings for RESOURCE\_TYPE of value C (online conference), or A (audio conference) will not be visible due to the special nature of these resource types.

## **User Directory Service Views**

This section describes the following views:

- uds\_address\_books
- uds\_contacts
- uds\_external\_persons
- uds\_groups
- uds\_group\_contact\_members
- uds\_group\_members
- uds\_sync\_profile
- uds\_users

## uds\_address\_books

This view provides information about address books:

### uds\_address\_books\_rv

| Name           | Nul | L?           | Туре              |
|----------------|-----|--------------|-------------------|
|                |     |              |                   |
| ENTERPRISE_ID  | NOT | NULL         | NUMBER (5)        |
| SITE_ID        | NOT | NULL         | NUMBER (5)        |
| TYPE           | NOT | ${\tt NULL}$ | VARCHAR2 (4 CHAR) |
| EID            | NOT | ${\tt NULL}$ | RAW(22)           |
| CREATED_ON     | NOT | ${\tt NULL}$ | TIMESTAMP(6)      |
| MODIFIED_ON    |     |              | TIMESTAMP(6)      |
| VISIBILITY     |     |              | VARCHAR2(1 CHAR)  |
| PARENT_SITE_ID |     |              | NUMBER (5)        |
| PARENT_TYPE    |     |              | VARCHAR2 (4 CHAR) |
| PARENT_EID     | NOT | NULL         | RAW(22)           |
|                |     |              |                   |

## uds\_contacts

This view provides information about contacts:

#### uds\_contacts\_rv

| Name              | Null? | Туре              |
|-------------------|-------|-------------------|
|                   |       |                   |
| ENTERPRISE_ID     |       | NUMBER(5)         |
| SITE_ID           |       | NUMBER(5)         |
| TYPE              |       | VARCHAR2 (4 CHAR) |
| EID               |       | RAW(22)           |
| CREATED_ON        |       | TIMESTAMP(6)      |
| MODIFIED_ON       |       | TIMESTAMP(6)      |
| VISIBILITY        |       | VARCHAR2(1 CHAR)  |
| PARENT_VISIBILITY |       | CHAR(1 CHAR)      |
| PARENT_SITE_ID    |       | NUMBER (5)        |
| PARENT_TYPE       |       | VARCHAR2 (4 CHAR) |
| PARENT_EID        |       | RAW(22)           |
| DATA_SIZE         |       | NUMBER (38)       |
| PEOPLE_LIST_ENTRY |       | VARCHAR2(1 CHAR)  |
| BOOKMARK_SITE_ID  |       | NUMBER (5)        |
| BOOKMARK_TYPE     |       | VARCHAR2 (4 CHAR) |
| BOOKMARK_EID      |       | RAW(22)           |
|                   |       |                   |

## uds\_external\_persons

This view provides information about external users:

### uds\_external\_persons\_rv

| Name           | Null?    | Туре          |
|----------------|----------|---------------|
| TWEEDERS       |          | NEW COLOR (5) |
| ENTERPRISE_ID  | NOT NULL | NUMBER (5)    |
| SITE_ID        | NOT NULL | NUMBER(5)     |
| PARENT_SITE_ID |          | NUMBER(5)     |
| EID            | NOT NULL | RAW(22)       |
| VISIBILITY     |          | VARCHAR2(1)   |
| CREATED_ON     |          | TIMESTAMP(6)  |
| MODIFIED_ON    |          | TIMESTAMP(6)  |

## uds\_groups

This view provides information about groups:

#### uds\_groups\_rv

| Name          | Nul | l?           | Туре         |
|---------------|-----|--------------|--------------|
|               |     |              |              |
| ENTERPRISE_ID | NOT | NULL         | NUMBER (5)   |
| SITE_ID       | NOT | ${\tt NULL}$ | NUMBER (5)   |
| EID           | NOT | ${\tt NULL}$ | RAW(22)      |
| TYPE          | NOT | ${\tt NULL}$ | VARCHAR2 (4) |
| VISIBILITY    |     |              | VARCHAR2(1)  |
| CREATED_ON    |     |              | TIMESTAMP(6) |
| MODIFIED_ON   |     |              | TIMESTAMP(6) |
|               |     |              |              |

## uds\_group\_contact\_members

This view provides information about group contact members:

### uds\_group\_contact\_members\_rv

| Name           | Null?    | Type              |
|----------------|----------|-------------------|
|                |          |                   |
| ENTERPRISE_ID  |          | NUMBER (5)        |
| GROUP_SITE_ID  |          | NUMBER (5)        |
| GROUP_TYPE     |          | VARCHAR2 (4 CHAR) |
| GROUP_EID      | NOT NULL | RAW(22)           |
| MEMBER_SITE_ID |          | NUMBER (5)        |
| MEMBER_TYPE    |          | VARCHAR2(4 CHAR)  |
| MEMBER_EID     | NOT NULL | RAW(22)           |

## uds\_group\_members

This view provides information about group members:

### uds\_group\_members\_rv

| Name                        | Null | l?           | Type                     |
|-----------------------------|------|--------------|--------------------------|
| ENMERDRICE ID               | NOT  | NIIII I      | NUMBER / E \             |
| ENTERPRISE_ID GROUP SITE ID |      |              | NUMBER (5)<br>NUMBER (5) |
| GROUP TYPE                  |      |              | VARCHAR2 (4)             |
| GROUP_EID                   | NOT  | NULL         | RAW(22)                  |
| MEMBER_SITE_ID              | NOT  | NULL         | NUMBER(5)                |
| MEMBER_TYPE                 | NOT  | ${\tt NULL}$ | VARCHAR2 (4)             |
| MEMBER_EID                  | NOT  | NULL         | RAW(22)                  |

## uds\_sync\_profile

This view provides information about LDAP synchronization profiles:

### uds\_sync\_profile\_rv

| Name       | Null?    | Туре           |
|------------|----------|----------------|
|            |          |                |
| PROFILEID  | NOT NULL | VARCHAR2(256)  |
| CHANGEID   |          | VARCHAR2 (256) |
| CHANGETIME |          | DATE           |

### uds\_users

These views provide information about users:

#### uds\_users\_rv

| Name                        | Null?    | Туре                |
|-----------------------------|----------|---------------------|
| ENTERPRISE_ID               | NOT NULL | NUMBER (5)          |
| SITE_ID                     | NOT NULL | NUMBER (5)          |
| PARENT_SITE_ID              |          | NUMBER (5)          |
| EID                         | NOT NULL | RAW(22)             |
| VISIBILITY                  |          | VARCHAR2(1)         |
| IS_EXTERNAL_INBOX           |          | VARCHAR2(1)         |
| IS_EXTENDED_ENTERPRISE_USER |          | VARCHAR2(1)         |
| CREATED_ON                  |          | TIMESTAMP(6)        |
| MODIFIED_ON                 |          | TIMESTAMP(6)        |
| uds_users_s_rv              |          |                     |
| Name                        | Null?    | Туре                |
| ENTERPRISE_ID               | NOT NULL | NUMBER (5)          |
| SITE_ID                     |          | NUMBER(5)           |
| TYPE                        |          | CHAR(4)             |
| EID                         |          | RAW(22)             |
| LOGIN_ID                    |          | VARCHAR2(1000 CHAR) |

## Creating Schema with Access Only to Oracle Beehive Views

Suppose you want to create an application that allows non-administrators (such as upper-level management) to view statistical reports on information from Oracle Business Views. In this situation, create a database schema that has access only to Oracle Beehive Views. Your application accesses Oracle Beehive views with this schema. This will prevent non-administrators accessing or modifying sensitive data in your Oracle Beehive database.

Follow these steps to create a database schema that has access only to Oracle Business Views:

Obtain the enterprise ID of your Oracle Beehive deployment. In the following example, the EnterpriseId is 13131.

| EnterpriseId   13131                           |   |  |
|--|---|--|
| Property name   Property value                 |   |  |
| beectl list_propertiescomponent _CURRENT_SITE: | - |  |

As a user with SYSDBA privileges, create a new tablespace in the Oracle Beehive Database. This example creates a tablespace named BEE\_RVIEWS\_TBLSPC:

```
sqlplus /nolog
```

```
SQL> connect SYS/<Password of SYS user> as SYSDBA
Connected
SQL> create tablespace BEE_RVIEWS_TBLSPC;
```

3. As a user with SYSDBA privileges, run the manage\_reporting\_user.sql script.

In the following example, BEE\_RVIEWS is the name of the new schema. Welcomel is the password for the new schema. TEMP is the name of the default temporary tablespace (you may specify another temporary tablespace). 13131 is the EnterpriseId of your Oracle Beehive deployment. Line breaks have been inserted in the following example for clarity.

SQL> @<Oracle Beehive home>/beehive/db/framework/ manage\_reporting\_user.sql create BEE\_RVIEWS Welcome1 BEE\_RVIEWS\_TBLSPC TEMP 13131