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Vocabulary

Identify the vocabulary word for each definition below:

DBA_*	Contain information about everything in the database, no matter who owns them.
ALL_*	Contain information about objects which you have privileges to use.
Data Dictionary	A catalog of all database objects contained in an Oracle database.
USER_*	Contain information about objects you own.

Try It / Solve It

- Which of the following statements are true:
 - The Data Dictionary is a list of hard coded table names in all Oracle databases.
Answer : FALSE
 - The Data Dictionary can be updated by all users with Select statements.
Answer : FALSE
 - All users of an Oracle Database can see details of all tables in that database.
Answer : TRUE
 - The Data Dictionary is owned by the user called SYS.
Answer : FALSE
- List the three different classes of Data Dictionary views, and state what kind of information is shown by each class.
Answer : - ALL_* tables contain information about objects that you have privileges to use
- USER_* tables contain information about objects that you own
- DBA_* tables contain information about everything in the database
- Write and execute a SELECT statement that lists all the stored objects you have created in your account so far. The query should return the object name, its type, and its status. Order the output by type of object.

Answer :

```
select object_name, object_type, status
from user_objects
order by object_type;
```

SQL Worksheet History

Worksheet Query Builder

```

set serveroutput on

select object_name, object_type, status
from user_objects
order by object_type;

```

Script Output x Query Result x

SQL | Fetched 50 rows in 0.144 seconds

OBJECT_NAME	OBJECT_TYPE	STATUS
1 TOMORROW	FUNCTION	VALID
2 NUM_CHAR	FUNCTION	VALID
3 TEMPERATURE	FUNCTION	VALID
4 VALID_DEPT	FUNCTION	VALID
5 TAX	FUNCTION	VALID
6 GET_SAL	FUNCTION	VALID
7 EMP_EMAIL_UK	INDEX	VALID
8 EMP_DEPARTMENT_IX	INDEX	VALID
9 EMP_JOB_IX	INDEX	VALID

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4. Modify the query from question 3 to show only functions and procedures to which you have access. Add the owner of the object to display in the results.

Answer :

```

select object_name, object_type, status, owner
from all_objects
where object_type in ('FUNCTION', 'PROCEDURE')
order by object_type;

```

SQL Worksheet History

Worksheet Query Builder

```

select object_name, object_type, status
from user_objects
order by object_type;

select object_name, object_type, status, owner
from all_objects
where object_type in ('FUNCTION', 'PROCEDURE')
order by object_type;

```

Script Output x Query Result x

SQL | Fetched 50 rows in 0.222 seconds

OBJECT_NAME	OBJECT_TYPE	STATUS	OWNER
1 GETTVOID	FUNCTION	VALID	SYS
2 XMLSEQUENCEFROMXMLTYPE	FUNCTION	VALID	SYS
3 XQSEQUENCEFROMXMLTYPE	FUNCTION	VALID	SYS
4 XMLSEQUENCEFROMREFCURSOR	FUNCTION	VALID	SYS
5 XMLSEQUENCEFROMREFCURSOR2	FUNCTION	VALID	SYS
6 SYS_IXMLAGG	FUNCTION	VALID	SYS
7 SYS_XMLAGG	FUNCTION	VALID	SYS
8 SYS_IXQAGG	FUNCTION	VALID	SYS
9 XQWINDOWSEQUENCEFROMXMLTYPE	FUNCTION	VALID	SYS
10 SYS_IXQAGGSUM	FUNCTION	VALID	SYS
11 SYS_IXQAGGAVG	FUNCTION	VALID	SYS
12 MVAGGRAWBITOR	FUNCTION	VALID	SYS

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5. What is DICT and why is it useful?

Answer : DICT is a super-view that lists all the dictionary tables, and It is useful to search a table when you forgot the name, for example `SELECT * FROM DICT WHERE table_name LIKE 'USER%IND%';`

6. Write and execute a suitable `SELECT...FROM DICT...` statement to list dictionary views which contain information about all views which you own.

Answer :

```
select * from dict
where table_name like '%VIEW%';
```

The screenshot shows the SQL Developer interface. The 'Connections' pane on the left lists '825200049 - Afina Putri Dayanti'. The main window displays a SQL script in the 'Worksheet' tab. The script contains two queries. The first query selects object names and types for functions and procedures. The second query, which is highlighted, selects all entries from the 'dict' table where the table name contains 'VIEW'. Below the script, the 'Query Result' tab shows 50 rows of data. The results are organized into two columns: 'TABLE_NAME' and 'COMMENTS'.

TABLE_NAME	COMMENTS
1 DBA_BASE_TABLE_MVIEWS	All materialized views with log(s) in the database
2 DBA_CUBE_DIM_VIEWS	OLAP Dimension Views in the database
3 DBA_CUBE_DIM_VIEW_COLUMNS	OLAP Dimension View Columns in the database
4 DBA_CUBE_HIER_VIEWS	OLAP Hierarchy Views in the database
5 DBA_CUBE_HIER_VIEW_COLUMNS	OLAP Hierarchy View Columns in the database
6 DBA_CUBE_VIEWS	OLAP Cube Views in the database
7 DBA_CUBE_VIEW_COLUMNS	OLAP Cube View Columns in the database
8 DBA_EDITIONING_VIEWS	Description of all Editioning Views in the database
9 DBA_EDITIONING_VIEWS_AE	Description of all Editioning Views in the database
10 DBA_EDITIONING_VIEW_COLS	Relationship between columns of all Editioning Views in the database and the table columns to which they map
11 DBA_EDITIONING_VIEW_COLS_AE	Relationship between columns of all Editioning Views in the database and the table columns to which they map
12 DBA_MVIEWS	All materialized views in the database

At the bottom of the window, the status bar indicates the file is saved at 'C:\Users\afinapd\AppData\Roaming\SQL Developer\p11task.sql' and shows the current cursor position as 'Line 13 Column 32'.