# EXERCISE-15 Controlling User Access

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1. What privilege should a user be given to log on to the Oracle Server? Is this a system or an object privilege?

Answer:

Privilege: CREATE SESSION

Type: System privilege

SQL command: GRANT CREATE SESSION TO username;

2. What privilege should a user be given to create tables?

Answer:

Privilege: CREATE TABLE Type: System privilege

SQL command: GRANT CREATE TABLE TO username;

3. If you create a table, who can pass along privileges to other users on your table?

### Answer:

The owner of the table can pass privileges on their table to other users. Using the WITH GRANT OPTION, the recipient can also grant those privileges to others.

Example: GRANT SELECT, INSERT ON my\_table TO username WITH GRANT OPTION;

4. You are the DBA. You are creating many users who require the same system privileges. What should you use to make your job easier?

#### Answer:

You should create a role that contains all the required system privileges. Then, you can grant the role to multiple users, which makes assigning and managing privileges easier.

Example: CREATE ROLE developer role;

GRANT CREATE SESSION, CREATE TABLE, CREATE SEQUENCE

TO developer role;

GRANT developer\_role TO user1, user2, user3;

## 5. What command do you use to change your password?

## Answer:

To change your Oracle database user password, you use the ALTER USER command. This command allows the user or a DBA to modify the password of a specific database account.

Syntax:

ALTER USER username IDENTIFIED BY new\_password;

Example:

ALTER USER scott IDENTIFIED BY lion;

6. Grant another user access to your DEPARTMENTS table. Have the user grant you query access to his or her DEPARTMENTS table.

## Answer:

To give another user permission to access my DEPARTMENTS table and to receive query access to their DEPARTMENTS table, the following SQL commands are used:

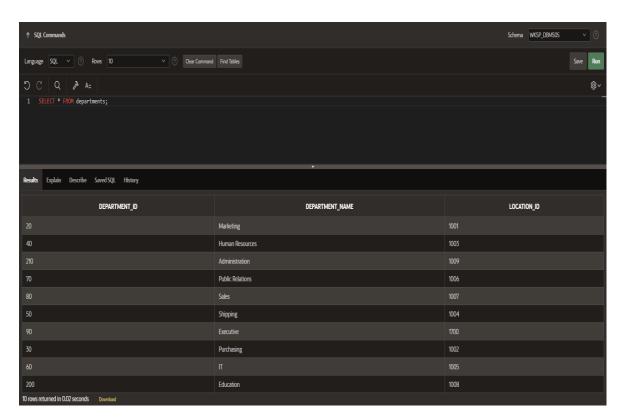
GRANT SELECT ON departments TO user2;

GRANT SELECT ON user2.departments TO user1;

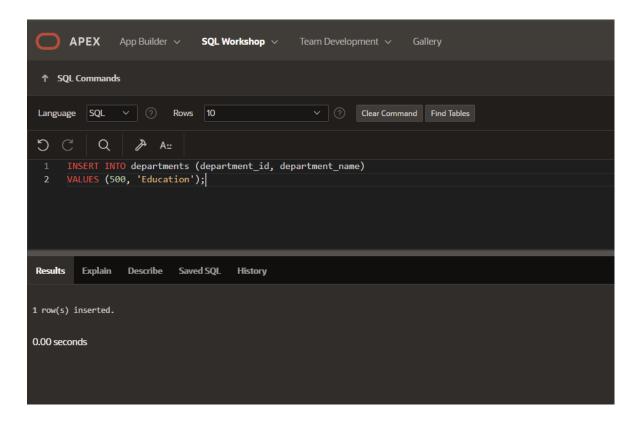
These commands allow both users to access each other's

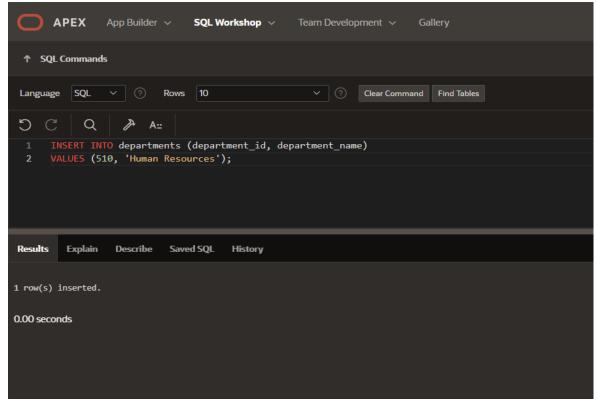
DEPARTMENTS table for querying purposes.

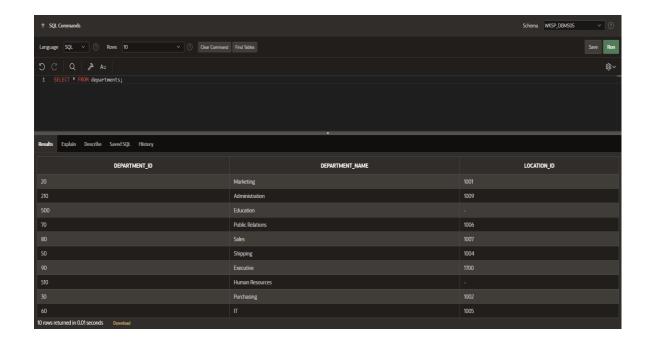
7. Query all the rows in your DEPARTMENTS table.



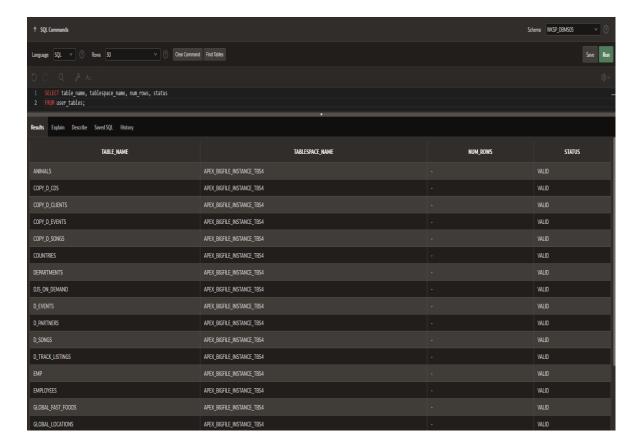
8. Add a new row to your DEPARTMENTS table. Team 1 should add Education as department number 500. Team 2 should add Human Resources department number 510. Query the other team's table.



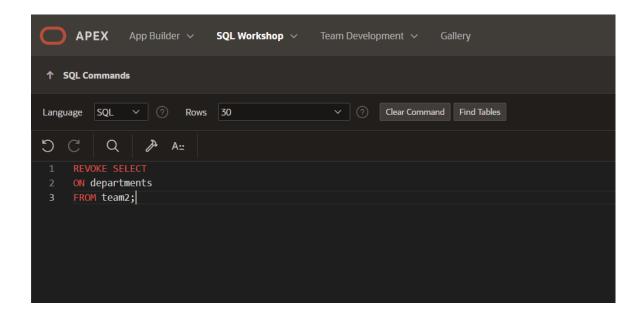




9. Query the USER\_TABLES data dictionary to see information about the tables that you own.



10.Revoke the SELECT privilege on your table from the other team.



11.Remove the row you inserted into the DEPARTMENTS table in step 8 and save the changes.

