EXERCISE-15
Controlling User Access

241801310 Department: AI&DS

Name: VIDHYASHREE J
Register Number:

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?

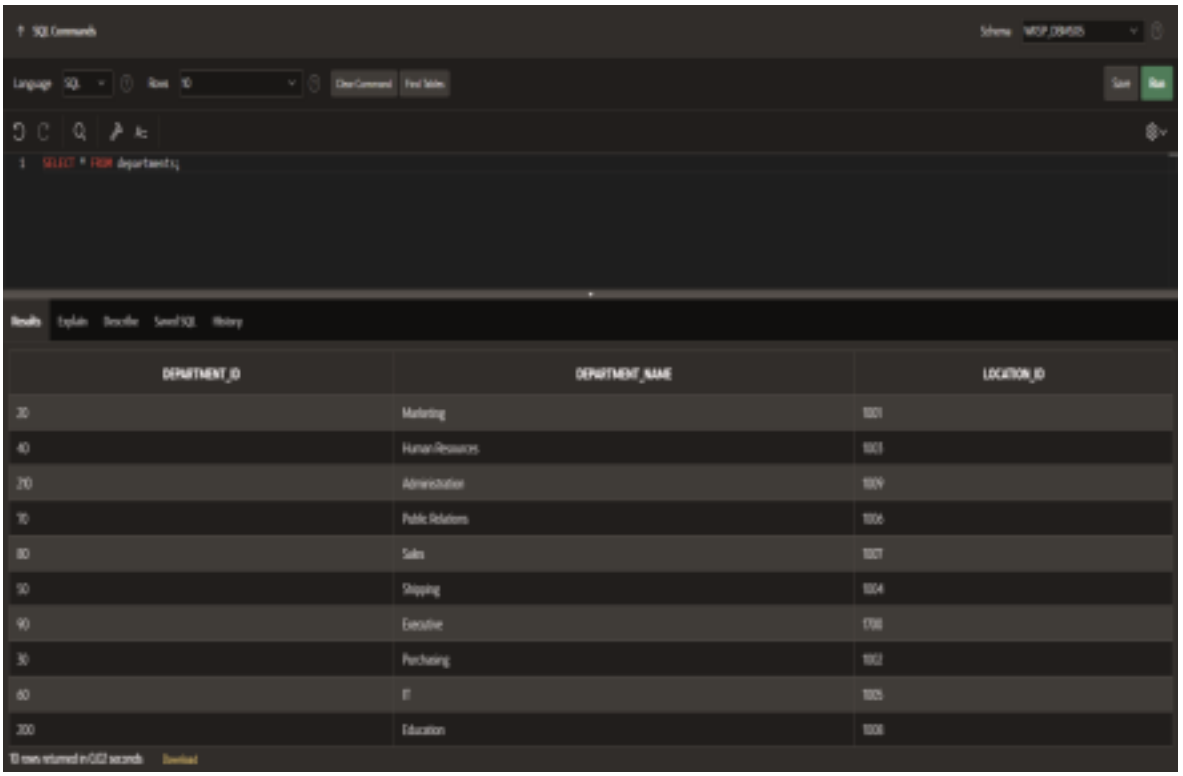
Answer:
To change your Oracle database user password, you use the ALTER USER command. This command allows the user or a DBA to modify the password of a specific database account.
Syntax:

ALTER USER username IDENTIFIED BY new_password;
Example:
ALTER USER scott IDENTIFIED BY lion;

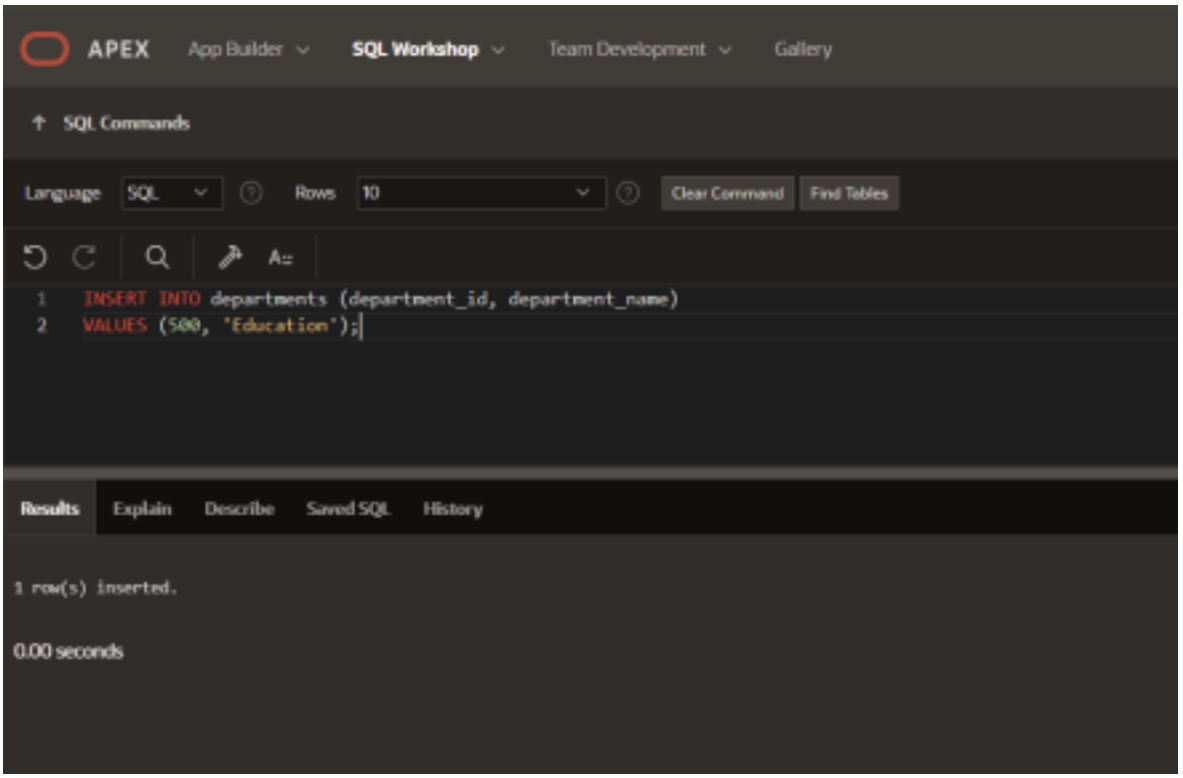
6. Grant another user access to your DEPARTMENTS table. Have the user grant you query access to his or her DEPARTMENTS table.

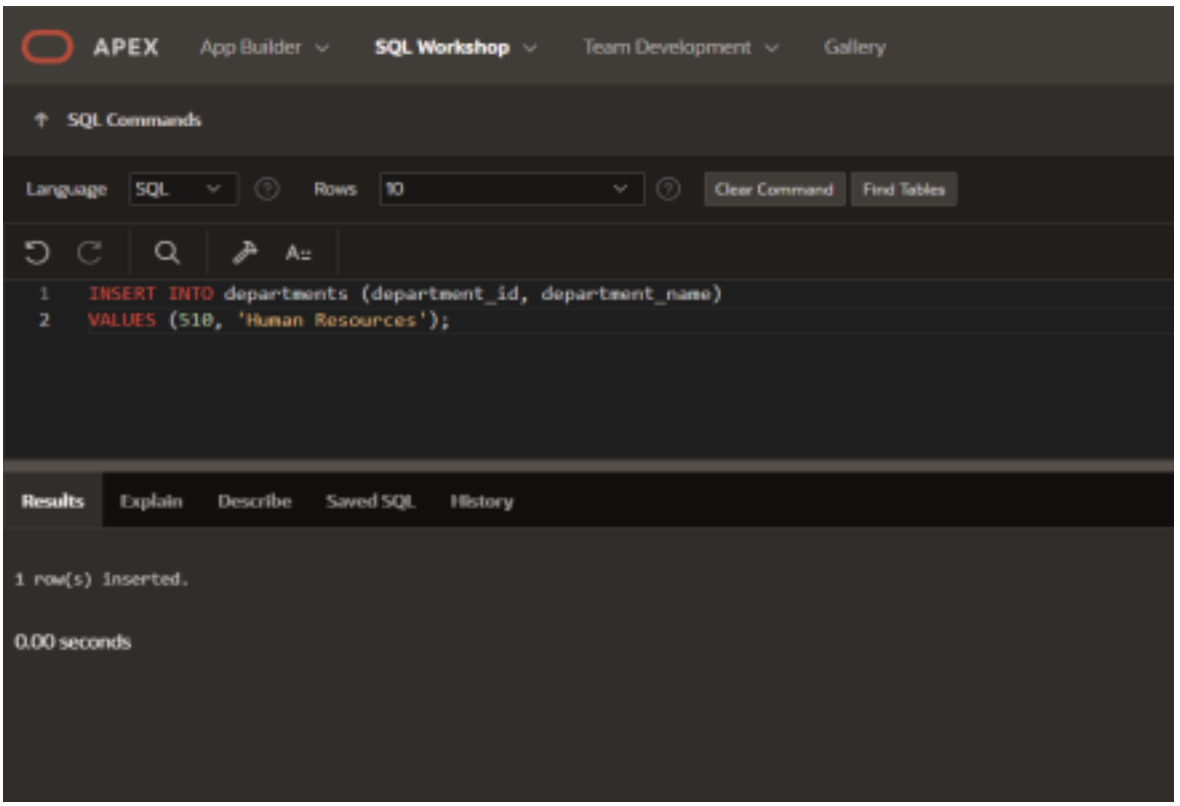
Answer:
To give another user permission to access my DEPARTMENTS table and to receive query access to their DEPARTMENTS table, the following SQL commands are used:
GRANT SELECT ON departments TO user2;
GRANT SELECT ON user2.departments TO user1;
These commands allow both users to access each other's DEPARTMENTS table for querying purposes.

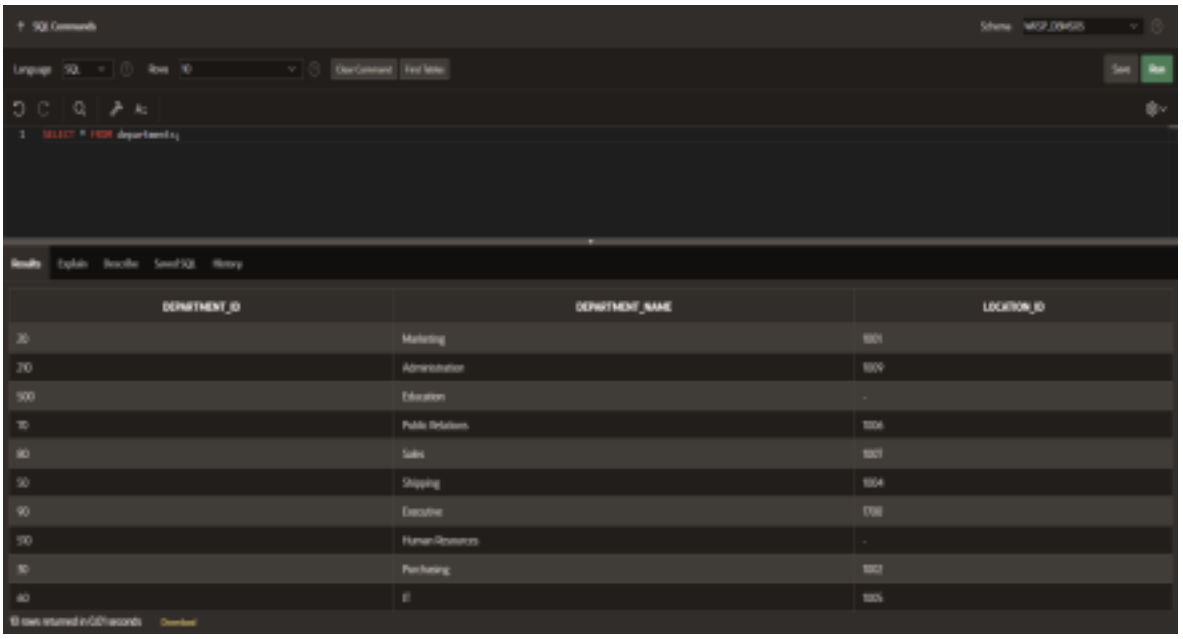
7. Query all the rows in your DEPARTMENTS table.



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.

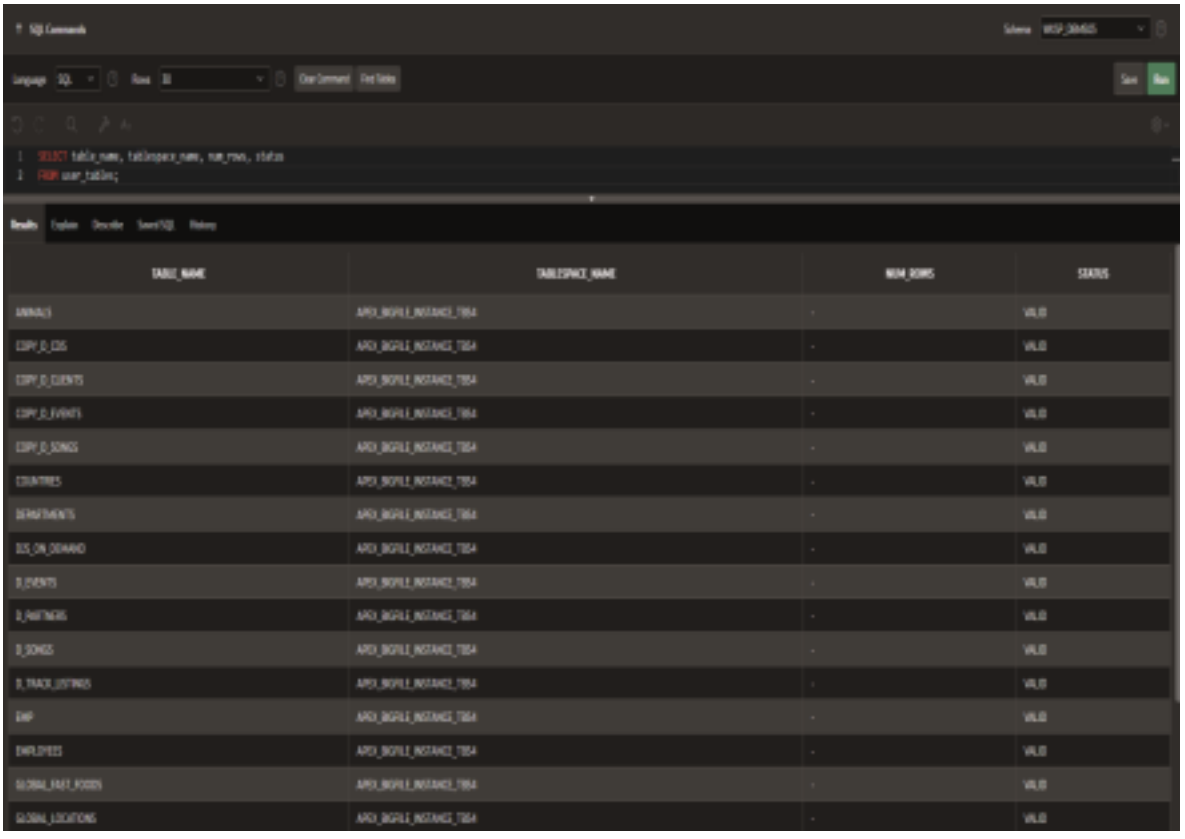

APEX
App Builder
SQL Workshop
Team Development
Gallery
SQL Commands
Language
SQL
Rows
10
Clear Command
Find Tables
1 INSERT INTO departments (department_id, department_name)
2 VALUES (500, 'Education');
Results
Explain
Describe
Saved SQL
History
1 row(s) inserted.
0.00 seconds


APEX
App Builder
SQL Workshop
Team Development
Gallery
SQL Commands
Language
SQL
Rows
10
Clear Command
Find Tables
1 INSERT INTO departments (department_id, department_name)
2 VALUES (510, 'Human Resources');
Results
Explain
Describe
Saved SQL
History
1 row(s) inserted.
0.00 seconds



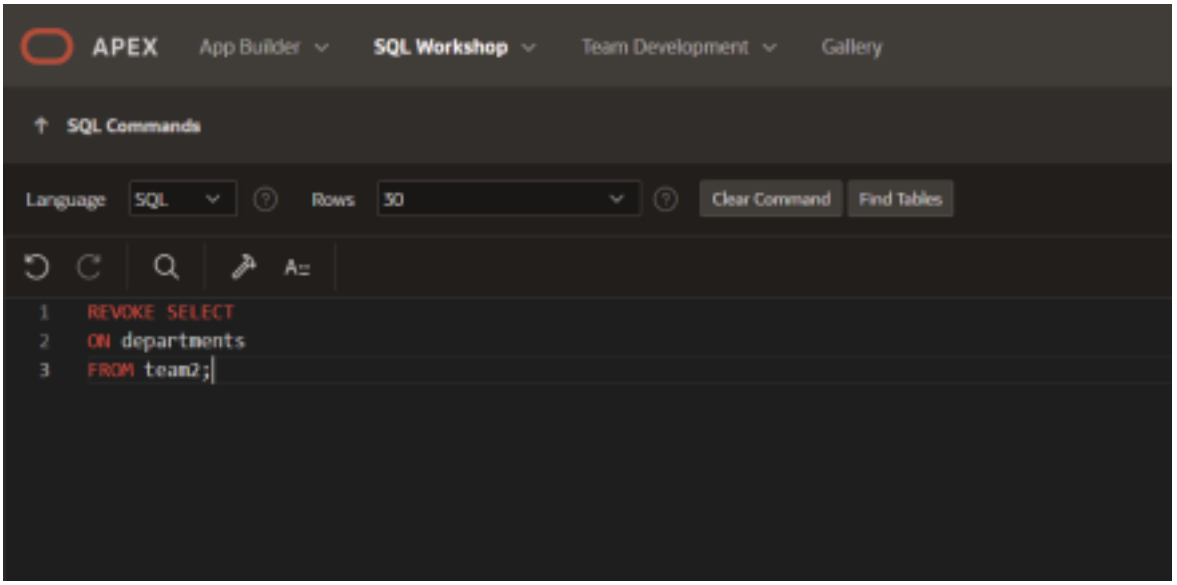
DEPARTMENT_ID	DEPARTMENT_NAME	LOCATION_ID
20	Marketing	1801
270	Administration	1809
500	Education	-
70	Public Relations	1804
80	Sales	1807
50	Shipping	1804
90	Executive	1700
110	Human Resources	-
30	Purchasing	1802
40	IT	1805

9. Query the USER_TABLES data dictionary to see information about the tables that you own.

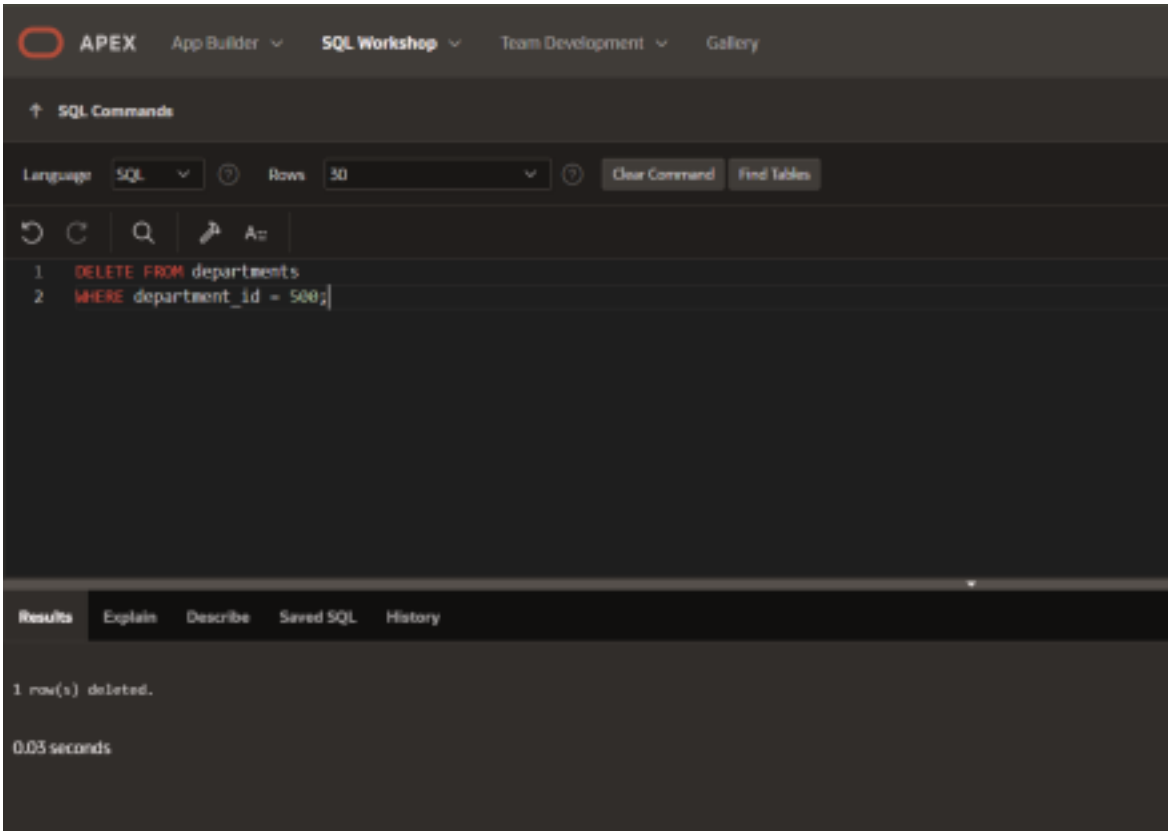


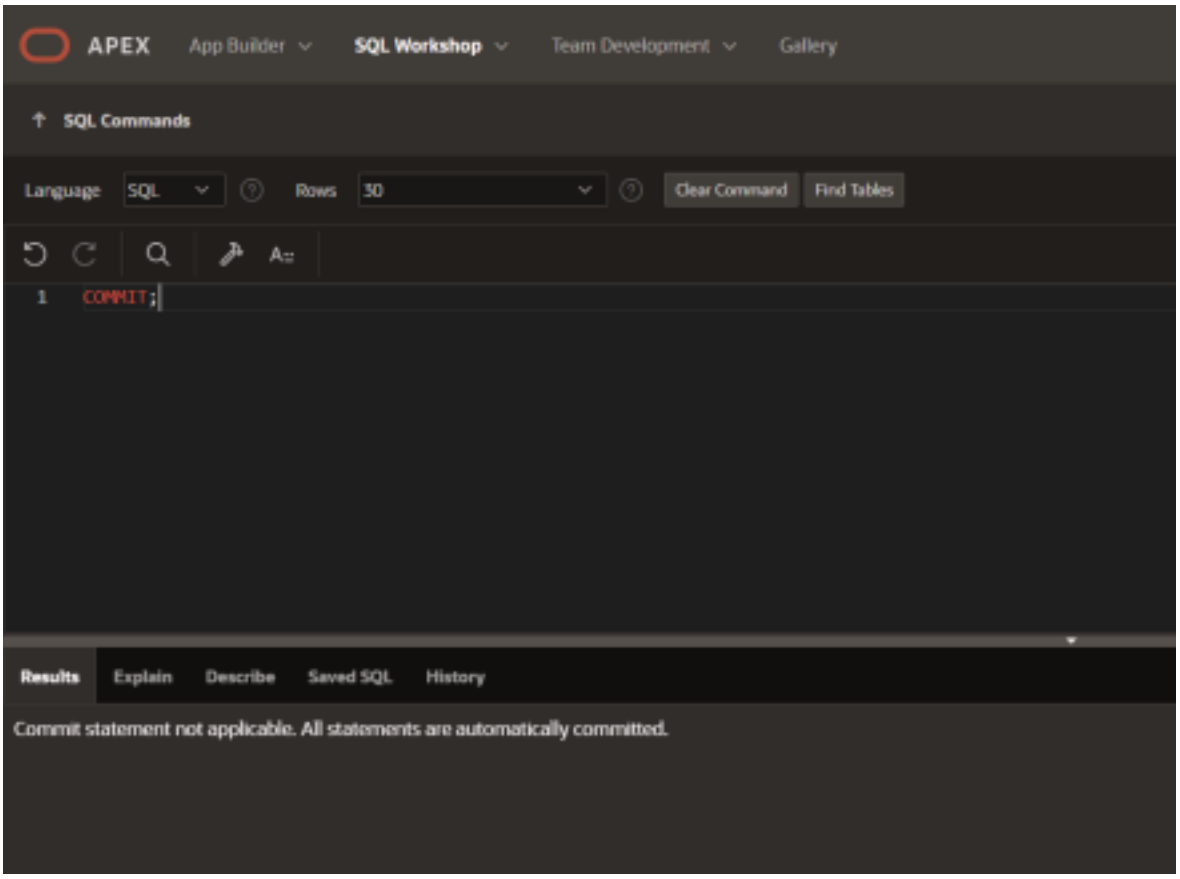
TABLE_NAME	TABLESPACE_NAME	NUM_ROWS	STATUS
ANIMALS	APEX_BIGFILE_INSTANCE_7864	-	VALID
COPY_D_CDS	APEX_BIGFILE_INSTANCE_7864	-	VALID
COPY_D_CLIENTS	APEX_BIGFILE_INSTANCE_7864	-	VALID
COPY_D_EVENTS	APEX_BIGFILE_INSTANCE_7864	-	VALID
COPY_D_SONGS	APEX_BIGFILE_INSTANCE_7864	-	VALID
COUNTRIES	APEX_BIGFILE_INSTANCE_7864	-	VALID
DEPARTMENTS	APEX_BIGFILE_INSTANCE_7864	-	VALID
DJS_ON_DEMAND	APEX_BIGFILE_INSTANCE_7864	-	VALID
D_EVENTS	APEX_BIGFILE_INSTANCE_7864	-	VALID
D_PARTNERS	APEX_BIGFILE_INSTANCE_7864	-	VALID
D_SONGS	APEX_BIGFILE_INSTANCE_7864	-	VALID
D_TRACK_LISTINGS	APEX_BIGFILE_INSTANCE_7864	-	VALID
EMP	APEX_BIGFILE_INSTANCE_7864	-	VALID
EMPLOYEES	APEX_BIGFILE_INSTANCE_7864	-	VALID
GLOBAL_FAST_FOODS	APEX_BIGFILE_INSTANCE_7864	-	VALID
GLOBAL_LOCATIONS	APEX_BIGFILE_INSTANCE_7864	-	VALID

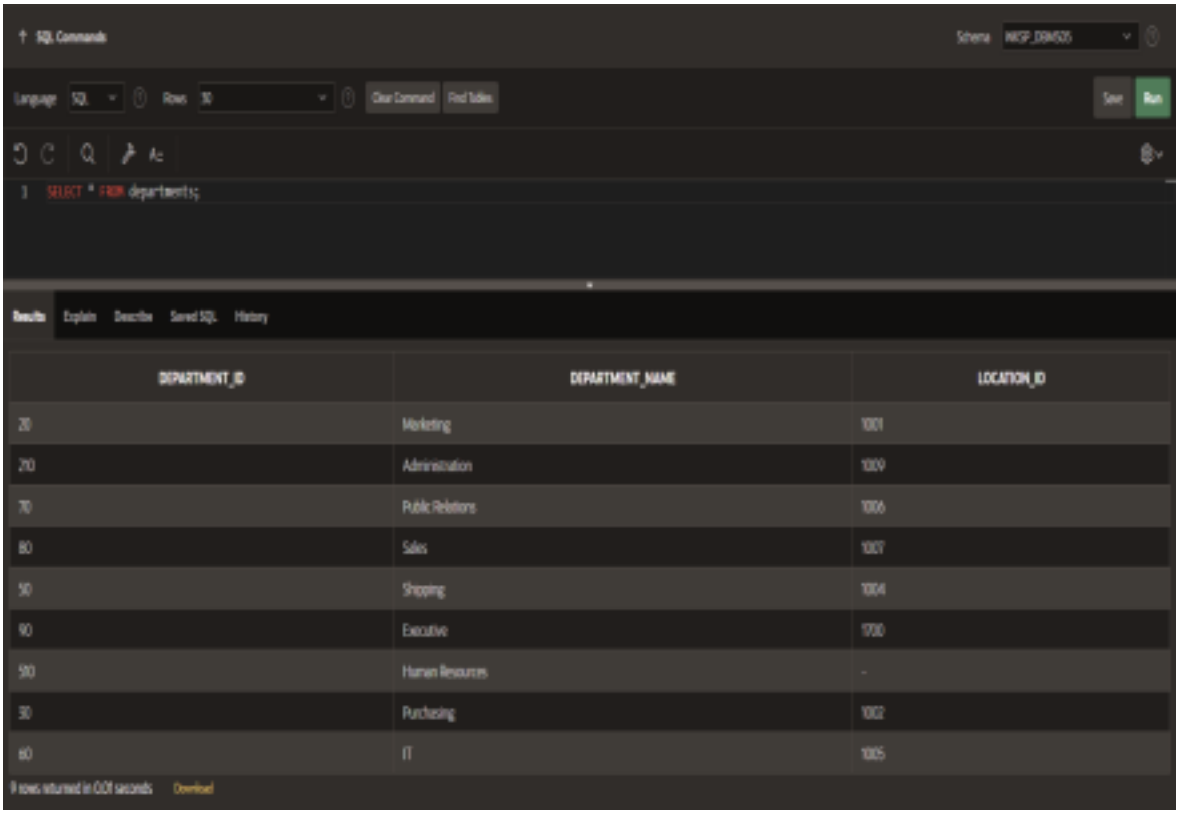
10. Revoke the SELECT privilege on your table from the other team.



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




APEX
App Builder
SQL Workshop
Team Development
Gallery
SQL Commands
Language
SQL
Rows
30
Clear Command
Find Tables
1 COMMIT;
Results
Explain
Describe
Saved SQL
History
Commit statement not applicable. All statements are automatically committed.


SQL Commands
Schema
Language
Rows
Clear Command
Find Tables
Save
Run
1 SELECT * FROM departments;
Results
Explain
Describe
Saved SQL
History
DEPARTMENT_ID
DEPARTMENT_NAME
LOCATION_ID
20 Marketing 1001
210 Administration 1009
70 Public Relations 1006
80 Sales 1007
50 Shipping 1004
90 Executive 1700
100 Human Resources -
30 Purchasing 1002
60 IT 1005
9 rows returned in 0.01 seconds
Download