

EXP - 16 - CONTROLLING USER ACCESS

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

The privilege a user should be given to log on to the Oracle Server is the **CREATE SESSION** privilege.

Type of Privilege: This is a system privilege.

GRANT CREATE SESSION TO username;

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

the user needs the **CREATE TABLE** privilege.

The **CREATE TABLE** privilege allows the user to create new tables in their own schema.

GRANT CREATE TABLE TO username;

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

When you create a table, only you as the table owner (or a user with the **ADMIN OPTION** or **GRANT ANY PRIVILEGE** system privilege) can grant privileges on your table to other users.

GRANT SELECT ON your_table TO other_user;

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?

As a DBA, to simplify the process of granting the same system privileges to multiple users, you should use roles.

```
CREATE ROLE my_role;
```

```
GRANT CREATE SESSION TO my_role;  
GRANT CREATE TABLE TO my_role;
```

```
GRANT my_role TO user1;  
GRANT my_role TO user2;
```

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

```
ALTER USER username IDENTIFIED BY new_password;
```

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

Grant Access to Your DEPARTMENTS Table

```
GRANT SELECT ON your_username.DEPARTMENTS TO other_user;
```

Grant Query Access to Other User's DEPARTMENTS Table

```
GRANT SELECT ON other_user.DEPARTMENTS TO your_username;
```

7. Query all the rows in your DEPARTMENTS table.

```
SELECT * FROM DEPARTMENT;
```

Results


Explain


Describe


Saved SQL

History

DEPT_ID	DEPT_NAME	MANAGER_ID	LOCATION_ID	COUNTRY_ID	MANAGER_NAME
70	HR	800	2	IND	don
25	executive	400	10	AFG	king
50	manager	200	10	US	king
80	stock clerk	150	19	UK	riyaan
45	IT support	400	13	IS	bell
15	sales manager	250	7	AFG	root

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Oracle APEX 24.1

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.

```
INSERT INTO DEPARTMENT(dept_id,
DEPT_NAME,manager_id,location_id,country_id,manager_name)
VALUES (500, 'Education',300,12,'BAN','ball');
```

```
INSERT INTO DEPARTMENT(dept_id,
DEPT_NAME,manager_id,location_id,country_id,manager_name)
VALUES (510, 'Human Resources',150,10,'AUS','john');
```

```
SELECT * FROM DEPARTMENT;
```

Results

Explain

Describe

Saved SQL

History

DEPT_ID	DEPT_NAME	MANAGER_ID	LOCATION_ID	COUNTRY_ID	MANAGER_NAME
510	Human Resources	150	10	AUS	john
500	Education	300	12	BAN	ball

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

```
SELECT * FROM USER_TABLES;
```

Results Explain Describe Saved SQL History												
TABLE_NAME	TABLESPACE_NAME	CLUSTER_NAME	IOT_NAME	STATUS	PCT_FREE	PCT_USED	INI_TRANS	MAX_TRANS	INITIAL_EXTENT	NEXT_EXTENT	MIN_EXTENTS	MAX_EXTENTS
AUDIT_LOG	APEX_BIGFILE_INSTANCE_TBS3	-	-	VALID	10	-	1	255	65536	1048576	1	2147483645
BOOKS	APEX_BIGFILE_INSTANCE_TBS3	-	-	VALID	10	-	1	255	65536	1048576	1	2147483645
COUNTRIES	APEX_BIGFILE_INSTANCE_TBS3	-	-	VALID	10	-	1	255	65536	1048576	1	2147483645
DEPARTMENT	APEX_BIGFILE_INSTANCE_TBS3	-	-	VALID	10	-	1	255	65536	1048576	1	2147483645
DEPT	APEX_BIGFILE_INSTANCE_TBS3	-	-	VALID	10	-	1	255	65536	1048576	1	2147483645
EMP	APEX_BIGFILE_INSTANCE_TBS3	-	-	VALID	10	-	1	255	65536	1048576	1	2147483645
EMP1	APEX_BIGFILE_INSTANCE_TBS3	-	-	VALID	10	-	1	255	-	-	-	-
EMPLOYEES	APEX_BIGFILE_INSTANCE_TBS3	-	-	VALID	10	-	1	255	65536	1048576	1	2147483645
EMPLOYEE_AUDIT	APEX_BIGFILE_INSTANCE_TBS3	-	-	VALID	10	-	1	255	65536	1048576	1	2147483645
HTMldb_PLAN_TABLE	APEX_BIGFILE_INSTANCE_TBS3	-	-	VALID	10	-	1	255	-	-	-	-
INVENTORY	APEX_BIGFILE_INSTANCE_TBS3	-	-	VALID	10	-	1	255	65536	1048576	1	2147483645

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

REVOKE SELECT ON team1_user.DEPARTMENTS FROM other_user;

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

**DELETE FROM DEPARTMENT
WHERE DEPT_ID IN (500, 510);**