EXP NO: 16 CONTROLING USER ACCESS

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### \*\*1. Privilege for logging on to the Oracle server\*\*

* \*\*Answer:\*\* A user needs the \*\*CREATE SESSION\*\* privilege to log on to the Oracle server. - This is a \*\*system privilege\*\*.

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### \*\*2. Privilege for creating tables\*\*

* \*\*Answer:\*\* A user needs the \*\*CREATE TABLE\*\* privilege. - This is a \*\*system privilege\*\*.

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### \*\*3. Granting privileges to others on your table\*\*

* \*\*Answer:\*\* The owner of the table can pass along privileges to other users using the \*\*WITH GRANT OPTION\*\* clause when granting privileges.

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### \*\*4. Simplifying privilege management for many users\*\*

* \*\*Answer:\*\* Use \*\*roles\*\* to group privileges and assign the role to users. This makes managing privileges easier.

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### \*\*5. Changing your password\*\*

* \*\*Answer:\*\* Use the following command to change your password:

```sql

ALTER USER <username> IDENTIFIED BY <new\_password>;

```

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### \*\*6. Grant and exchange privileges on the `DEPARTMENTS` table\*\*

\*\*Grant access to your `DEPARTMENTS` table:\*\*

```sql

GRANT SELECT ON DEPARTMENTS TO <other\_user>;

```

\*\*Grant back access from the other user:\*\*

```sql

-- Other user grants SELECT on their DEPARTMENTS table to you

GRANT SELECT ON DEPARTMENTS TO <your\_username>;

```

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### \*\*7. Query all rows in your `DEPARTMENTS` table\*\*

```sql

SELECT \* FROM DEPARTMENTS;

```

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### \*\*8. Add rows to `DEPARTMENTS` and query the other team’s table\*\*

\*\*Team 1 adds `Education` with department number 500:\*\*

```sql

INSERT INTO DEPARTMENTS (DEPARTMENT\_ID, DEPARTMENT\_NAME)

VALUES (500, 'Education');

```

\*\*Team 2 adds `Human Resources` with department number 510:\*\*

```sql

INSERT INTO DEPARTMENTS (DEPARTMENT\_ID, DEPARTMENT\_NAME)

VALUES (510, 'Human Resources');

```

\*\*Query the other team’s `DEPARTMENTS` table:\*\*

```sql

SELECT \* FROM <other\_team\_username>.DEPARTMENTS;

```

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### \*\*9. Query the `USER\_TABLES` data dictionary\*\*

```sql

SELECT \* FROM USER\_TABLES;

```

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### \*\*10. Revoke the SELECT privilege on your table\*\*

```sql

REVOKE SELECT ON DEPARTMENTS FROM <other\_user>;

```

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### \*\*11. Remove the row inserted in step 8 and save changes\*\*

\*\*Team 1 deletes the `Education` row:\*\*

```sql

DELETE FROM DEPARTMENTS WHERE DEPARTMENT\_ID = 500;

COMMIT;

```

\*\*Team 2 deletes the `Human Resources` row:\*\*

```sql

DELETE FROM DEPARTMENTS WHERE DEPARTMENT\_ID = 510;

COMMIT;

```

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### Notes:

* Replace `<username>` or `<other\_user>` with the actual usernames.
* Ensure that the database objects and table structures (`DEPARTMENTS`) exist for these commands to work.