

## CONTROLLING USER ACCESS

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

A user needs the `CREATE SESSION` privilege to log on to the Oracle server.

### 2. Privilege for creating tables

A user needs the `CREATE TABLE` privilege.

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

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

### 4. Simplifying privilege management for many users

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

### 5. Changing your password

Use the following command to change your password:

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

### 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:

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

```
GRANT SELECT ON DEPARTMENTS TO <your_username>;
```

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

```
SELECT * FROM DEPARTMENTS;
```

### 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;
```

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

sql

```
SELECT * FROM USER_TABLES;
```

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

sql

```
REVOKE SELECT ON DEPARTMENTS FROM <other_user>;
```

#### **11.0**

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;
```

Notes:

- Replace ``<username>`` or ``<other_user>`` with the actual usernames.
- Ensure that the database objects and table structures (e.g. `DEPARTMENTS`) exist for these commands to work.