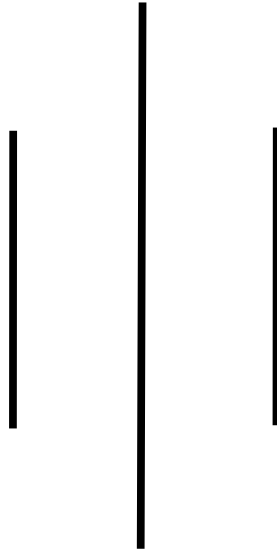


# **Deerwalk Institute Of Technology**

## **Database Administration**



### **Lab: 6**

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**Date:**

## Managing Privileges

### 1. System Privilege

- Assign **CREATE SESSION** Privilege to the user.

```
SQL> GRANT CREATE SESSION to kundan;  
Grant succeeded.
```

- Trying to grant the **CREATE SESSION** Privilege to another user by *kundan* and failed because *kundan* is not granted with the **ADMIN OPTION**.

```
SQL> connect kundan;  
Enter password:  
Connected.  
SQL> GRANT CREATE SESSION to sachin  
2 ;  
GRANT CREATE SESSION to sachin  
*  
ERROR at line 1:  
ORA-01031: insufficient privileges
```

- Create user and role and assign that user to that role.

```
SQL> create user kundan identified by password;  
User created.  
SQL> create role TestRole;  
Role created.  
SQL> Grant TestRole to kundan;  
Grant succeeded.
```

- Grant **CREATE SESSION** Privilege to the *TestRole*, though *kundan* will also get that Privilege.

```
SQL> GRANT CREATE SESSION to TestRole WITH ADMIN OPTION;  
Grant succeeded.
```

- Trying to grant the **CREATE SESSION** Privilege to another user by *kundan* and success because *TestRole* is granted with the **ADMIN OPTION** and *kundan* is assigned to the *TestRole*.

```
SQL> connect kundan;
Enter password:
Connected.
SQL> GRANT CREATE SESSION to sachin;
Grant succeeded.
```

## 2. Object Privilege

- Granting select privilege on the student table of user *prajjwal* to the user *kundan* without **GRANT OPTION**.

```
SQL> connect kundan;
Enter password:
Connected.
SQL> select *from prajjwal.student
2 ;
```

ID	NAME	ADDRESS	SEMESTER
5	Prajjwal Das	you can see too bar	7
1	Ram Bahadur	Thamel	1
1	Ram Bahadur	Thamel	5
5	sachin	chabahil	7

- Trying to use delete query by *kundan* on user *prajjwal*'s student table but failed.

```
SQL> delete from prajjwal.student where id=5;
delete from prajjwal.student where id=5
*
```

ERROR at line 1:  
ORA-01031: insufficient privileges

- Trying to **GRANT** the select privilege on the student table of user *prajjwal* to the user *sachin* by *kundan* but failed.

```
SQL> GRANT select on prajjwal.student to sachin;
GRANT select on prajjwal.student to sachin
*
```

ERROR at line 1:  
ORA-01031: insufficient privileges

- Granting select privilege on the student table of user *prajjwal* to the user *kundan* with **GRANT OPTION**.

```
SQL> connect prajjwal
Enter password:
Connected.
SQL> GRANT select on student to kundan with GRANT OPTION;

Grant succeeded.
```

- Trying to **GRANT** the select privilege on the student table of user *prajjwal* to the user *sachin* by *kundan* and successes.

```
SQL> connect kundan;
Enter password:
Connected.
SQL> GRANT select on prajjwal.student to sachin;

Grant succeeded.
```