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| Roll Number | 21SW085 |
| Section # | 3rd or III |
| Lab # | 10th |
| Topic # | Granting and revoking Access |

**Task:**

1. Create 3 different users.
2. Assign different system privileges to any one of the three users.
3. Assign different object privileges to any one of the three users.
4. Create a role named manager, assign different privileges to that role and then finally assign that role to one of the three users.
5. Revoke all the privileges from all of the three users.

**Solutions:**

1. Create 3 different users.

Ans: User 1 : John

User 2: Sarah

User 3 : Alex

2. Assign different system privileges to any one of the three users.

Ans:

User 1:

• Name: John

• Privileges:

• Can read and write files in the /home/john directory

• Can execute the /usr/bin/git command

User 2:

• Name: Sarah

• Privileges:

• Can create and delete files in the /var/log directory

• Can run the sudo command with password authentication

User 3:

• Name: Alex

• Privileges:

• Can read and write files in the /var/www directory

• Can restart the Apache web server using the /etc/init.d/apache2 script

3. Assign different object privileges to any one of the three users.

Ans:

User: John

Object: A database named "sales"

Privileges:

• SELECT privilege on the "sales" database

• INSERT privilege on the "sales" database for the "orders" table

• UPDATE privilege on the "sales" database for the "inventory" table

4. Create a role named manager, assign different privileges to that role and then finally assign that role to one of the three users.

Ans:

CREATE ROLE manager;

GRANTSELECT, INSERT, UPDATEONsales.ordersTO manager;

GRANTEXECUTEONmy\_procTO manager;

GRANT manager TO john;

5. Revoke all the privileges from all of the three users.

Ans:

REVOKEALL PRIVILEGES ONALL OBJECTS FROM john;

REVOKEALL PRIVILEGES ONALL OBJECTS FROMsarah;

REVOKEALL PRIVILEGES ONALL OBJECTS FROMalex;