

## INT207 Lab 5

**Task 1: Using Roles**

Connect the database as user <DBxxxx>

1. Revoke all object privileges on PHONELIST from the user <APPxxxx> .  
**REVOKE all ON phonelist FROM APPxxxx;**
2. Create a role named **R\_DEVxxxx** and grant the SELECT and UPDATE privileges on the PHONELIST table to the **R\_DEVxxxx** role.  
**CREATE ROLE R\_DEVxxxx;**  
**GRANT select, update ON phonelist TO R\_DEVxxxx;**
3. Create a role named **R\_MGRxxxx** and grant the INSERT and DELETE privileges on the PHONELIST table to the **R\_MGRxxxx** role.  
**CREATE ROLE R\_MGRxxxx;**  
**GRANT insert, delete ON phonelist TO R\_MGRxxxx;**
4. Grant the role **R\_DEVxxxx** to the **R\_MGRxxxx** role.  
**GRANT R\_DEVxxxx TO R\_MGRxxxx;**  
  
*--To describe the roles granted to other roles--*  
**SELECT \* FROM role\_role\_privs;**
5. Grant the **R\_DEVxxxx** role to user <APPxxxx> that can be passed the granted role to other users and roles.  
**GRANT R\_DEVxxxx TO APPxxxx WITH ADMIN OPTION;**

Connect the database as user <APPxxxx>

**Note:** *If you do [Lab 3](#) completely, the password of a user <APPxxxx> will be <dbms>.*

6. Verify the granted role by checking data from data dictionary views.  
**SELECT \* FROM user\_role\_privs;**
7. Now, Can user <APPxxxx> select all columns of DBxxxx.PHONELIST table? **Y|N**  
*--If user APPxxxx is connecting to the database, please reconnect to the database.*  
**SELECT \* FROM DBxxxx.PHONELIST;**

Connect the database as user <DBxxxx>

8. Revoke the **R\_DEVxxxx** role from user <APPxxxx> and grant the **R\_MGRxxxx** role to user <APPxxxx>.  
**REVOKE R\_DEVxxxx FROM APPxxxx;**  
**GRANT R\_MGRxxxx TO APPxxxx ;**

**Connect the database as user <APPxxxx>**

9. Verify the granted role by checking data from data dictionary view.

```
SELECT * FROM user_role_privs;
```

10. Now, Can user <APPxxxx> delete a row of DBxxxx.PHONELIST table? /Y|N/

*Hint: If you can delete it, please rollback the deletion.*

--If user APPxxxx is connecting to the database, please reconnect to the database.

```
DELETE FROM DBxxxx.PHONELIST;  
ROLLBACK;
```

**Connect the database as user <DBxxxx>**

11. Revoke ONLY the UPDATE privilege from the R\_DEVxxxx role.

*How does this revoke effects to the user <APPxxxx>? Please verify*

```
REVOKE update ON phonelist FROM R_DEVxxxx;
```

12. User <DBxxxx> wants to limit the role R\_DEVxxxx to update data ONLY column PHONE\_NUMBER of the DBxxxx.PHONELIST table.

How does user <DBxxxx> do for supporting the requirement? Please do it.

```
GRANT update (phone_number) ON phonelist TO R_DEVxxxx;
```

13. Remove the R\_MGRxxxx role.

```
DROP ROLE R_MGRxxxx;
```

14. Verify that the role R\_MGRxxxx is removed.

---If you are not DBA, you cannot access the DBA\_ROLES data dictionary view.

```
SELECT role FROM dba_roles  
WHERE role = 'R_MGRxxxx';
```