UNIVERSITY OF SINDH

Assignment Of

ITEC-515 DB Administration & Management

Practice Lab Task 6

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Lab Practice 6 – Database Systems

Note: Here I've create an account in Oracle Database using **SQL Plus** named **Mubashir Ali**

➢ In **Mubashir Ali** account I've created a table with specification, see below.
   • Table name **Course** with 2 columns **Course_id** & **Course_name.**

Note: Also two more Accounts I've created **Bee** & **Chris.**
Note: To **Bee** I've granted some special permissions

Queries:
Grant Alter, Delete, Insert, Select, Update On Course To Bee;

Note: To **Chris** I've granted only view permissions

Queries:
Grant Select On Course To Chris;

Now I'm trying to view,

   1) **Select * From Course;**

Output:

From Bee:

Results Explain Describe Saved SQL

ORA-00942: table or view does not exist

From Chris:

Results Explain Describe Saved SQL

ORA-00942: table or view does not exist

2) Select * From Mubashir Ali.Course;

Output:

From Bee:

COURSE_ID	COURSE_NAME
1	DBA
2	SQL
3	WST
4	OS

4 rows returned in 0.00 seconds   Download

From Chris:

COURSE_ID	COURSE_NAME
1	DBA
2	SQL
3	WST
4	OS

4 rows returned in 0.00 seconds   Download

**3) Update Mubashir Ali.Course Set
    Course_Name = 'Intro To Sql'
    Where Course_Name = 'Sql';**

Output:

From Bee:

Results Explain Describe

1 row(s) updated.

0.05 seconds

From Chris:
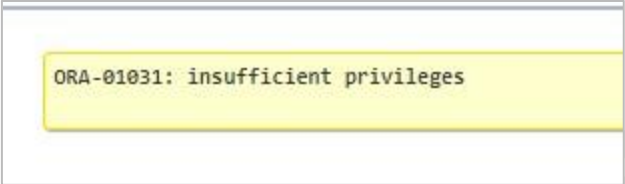
ORA-01031: insufficient privileges

4) **Create Index Ind_Course_Name On Alex.Course (Course_Name);**

Output:

From Bee:

ORA-01031: insufficient privileges

From Chris:

ORA-01031: insufficient privileges

Practice Questions

i. **Create two roles:**
   a. Teachers
   b. Students

Queries:
 Create Role Teachers;

Queries:
 Create Role Students;

ii. **Create Following accounts**
   a. **Teachers**
      i. **UserName**: Zia
      Password: 123
      ii. **UserName**:Arshad
      Password: 1234
      iii. **UserName**: Sara
       Password: 12345

b. **Students**

    i. **Username**: Fahad
    Password: 1234
    ii. **Username**: Nida
    Password: 12345
    iii. **Username**: Ali
    Password: 123456
    iv. **Username**: Khan
    Password: 1234567

Teachers Accounts:

Queries:
Create User Zia Identified By 123;
Default Tablespace Users
Temporary Tablespace Temp
Quota Unlimited On Users;

Queries:
Create User Arshad Identified By 1234;
Default Tablespace Users
Temporary Tablespace Temp
Quota Unlimited On Users;

Queries:
Create User Sara Identified By 12345;
Default Tablespace Users
Temporary Tablespace Temp
Quota Unlimited On Users;

Students Accounts:

Queries:
Create User Fahad Identified By 1234;
Default Tablespace Users

Temporary Tablespace Temp
Quota Unlimited On Users;

Create User Nida Identified By 12345;
Default Tablespace Users
Temporary Tablespace Temp
Quota Unlimited On Users;

Create User Ali Identified By 123456;
Default Tablespace Users
Temporary Tablespace Temp
Quota Unlimited On Users;

Create User Khan Identified By 1234567;
Default Tablespace Users
Temporary Tablespace Temp
Quota Unlimited On Users;

iii. Grant below mentioned permissions to roles

        a. Teachers

                i. grant alter session
                ii. create session
                iii. create database link iv. create table
                v. create sequence
                vi. create synonym vii. create view

        b. Students
                i. grant alter session

ii. create session iii. create database link

Granting Permission to Teachers Role

Queries:
Grant Alter Session, Create Session, Create Database Link, Create Table, Create Sequence, Create Synonym, Create View To Teachers;

Granting Permission To Students Role

Queries::
Grant Alter Session, Create Session, Create Database Link To Students;

iv. Assigning Roles to Users

    a. Assign **Teachers** role to following users
        i. Zia
        ii. Arshad
        iii. Sara
    b. Assign **Students** role to following users
        i. Fahad
        ii. Nida
        iii. Ali
        iv. Khan

Assigning Teachers Roles users

Queries:
Grant Teachers To Zia, Arshad, Sara;

Assigning Students Role To Users

Queries:
Grant Students To Fahad, Nida, Ali, Khan;

v.   Login into User **"Zia"** Account and Create following **Results** table.

Table Name: **Results**

Result_id	CourseName	Student_role_number	Marks
1	JAVA	1	50
2	DATABASE	1	60
3	CPP	2	70
4	BASIC ELECTRONICS	2	80

vi.   Login into User "**Fahad**" Account.
        Try to view results of all students by executing query.
            "select * from result"

Output:

From Fahad:

Now go back to "**Zia**" Account and grant permissions to "**Fahad and Nida"** so that they view all records from **results** table.

Queries:
(First Connect Zia Account in SQLPlus then run query written below)
Grant Select On Results To Fahad, Nida;

vii.   Also Assign "**select, insert, update** and **delete"** permissions on "**Results table"** to teachers "**Arshad and Sara**"

viii.   Now Login into "**Sara"** account and try to insert a row in Results table.

Queries:
Insert Into Zia.Results(Result_Id, Coursename, Student_Role_Number, Marks) Values(5, Python', 4, 75);

ix.   Now Login into "**Arshad"** account and try to delete a record having **result_id of "3"** Results table.

Queries:
**Delete Zia.Results
Where Result_Id = 3;**

x.   Delete user account of "**Khan**" also revoke all his permissions.

Queries:
Drop User Khan Cascade;

THE END