

# IT478 lab 10 assignment

There are 3 parts – Do each part.

Complete all parts below and then submit the SQL, results and any additional text I have requested to ReggieNet.

Before starting this assignment, please read chapter 12 in our textbook.

1. Create a table named **STATE\_CITY**. Like this

```
CREATE TABLE state (  
state_abbrev VARCHAR2(2));
```

2. Use **ALTER TABLE** to add the column **STATE\_NAME** to the **STATE\_CITY** table  
**STATE\_NAME**'s data type is **VARCHAR2** (the length is 30).

3. Use **ALTER TABLE** to add the column **CITY\_NAME** to the **STATE\_CITY** table **CITY\_NAME**'s  
data type is **VARCHAR2** (the length is 30).

4. Insert the following roles in the **STATE\_CITY** table:

STATE_ABBREV	STATE_NAME	CITY_NAME
-----		
NV	Nevada	Las Vegas
IL	Illinois	Chicago
NY	New York	New York

a. RUN  
**COMMIT;**

b. RUN  
**DESC state\_city;**

and

```
SELECT * FROM state_city;
```

Do the above to ensure that you have created and populated the **STATE\_CITY** table correctly.

5. Below is the DDL to create and load the T table:

```
CREATE TABLE t ( pid
NUMBER(5), fname
VARCHAR2(20), lname
VARCHAR2(25));
```

```
INSERT INTO t (pid, fname, lname) VALUES (1, 'Dan', 'Morgan');
INSERT INTO t (pid, fname, lname) VALUES (2, 'Jeremiah',
'Wilton'); INSERT INTO t (pid, fname, lname) VALUES (3,
'Helen', 'Lofstrom'); COMMIT;
```

a. Run the above DDL to create and load the T table.

b. RUN  
DESC t;

and

```
SELECT * FROM t;
```

Do the above to ensure that you have created and populated the **T table** correctly.

## Part 2

I have 3 'EXTRA' Oracle accounts that are not assigned to students:

**IT47827 IT47828 IT47829**

We will use these three extra accounts to practice **GRANTING PRIVILEGES** to others.

a. Grant **SELECT** privileges on the table **STATE\_CITY** to user **IT47827**.

b. Grant **all** privileges on the tables **STATE\_CITY** and **T** to user **IT47828**. (Will require more than 1 statement)

c. Grant **SELECT**, **INSERT** and **DELETE** privileges on the tables **STATE\_CITY** and **T** to user **IT47829**. (Will require more than 1 statement).

d. i. Run the SQL below, ii. show me the results, and iii. **EXPLAIN** (in your own words) the results.

```
SET pagesize 40
```

```
COLUMN table_name FORMAT A14
```

```
COLUMN PRIVILEGE FORMAT A20
```

```
COLUMN GRANTEE FORMAT A10
```

```
select TABLE_NAME, PRIVILEGE, GRANTEE from USER_TAB_PRIVS
ORDER BY GRANTEE, TABLE_NAME;
```

- e. Revoke the **SELECT** privileges on the table **STATE\_CITY** from user **IT47827**.
- f. Revoke the **DELETE** privileges on the tables **STATE\_CITY** and **T** from users **IT47828** and **IT47829**. (Will require more than 1 statement).
- g. Revoke **all** privileges on the table **T** from user **IT47829**.
- h. i. Run the SQL below, ii. show me the results, and iii. **EXPLAIN** (in your own words) the results (Why are the results different than those in d?).

```
SET pagesize 40 COLUMN table_name FORMAT A14
COLUMN PRIVILEGE FORMAT A20 COLUMN
GRANTEE FORMAT A10 select
TABLE_NAME, PRIVILEGE, GRANTEE
from USER_TAB_PRIVS ORDER BY
GRANTEE, TABLE_NAME;
```

### Part 3.

**IMPORTANT:** For **a-e** below,

i. Run the SQL, ii. show me the results, and iii. **EXPLAIN** (in your own words) the results.

a.

```
SELECT * FROM user_role_privs;
```

b.

```
SELECT * FROM user_sys_privs;
```

c.

```
SELECT * FROM role_sys_privs;
```

d.

```
SELECT * FROM table_privileges WHERE owner LIKE 'I%';
```

e.

```
SELECT * FROM session_privs;
```

Please do not wait until the last minute to start this assignment, no extensions will be granted for any reason.