Ex. No: 6 Date: 01 – 09 - 2022

**Experiment 6**

**Consider the following schema of a database:**

**Client** (ID, Name, E\_ID)

**Country** (ID, Country, Country\_Code)

**Tables:**

##### ****Client****

|  |  |  |
| --- | --- | --- |
| **ID** | **Name** | **Email\_ID** |
| 1 | George | ge.com |
| 2 | David | da.com |
| 3 | Chris | ch.com |
| 4 | Morrison | mo.com |
| 5 | Brian | cor.com |

**Country**

|  |  |  |
| --- | --- | --- |
| **ID** | **Country** | **Country\_Code** |
| 1 | India | IND |
| 2 | Spain | ESP |
| 3 | France | FRA |
| 4 | England | ENG |
| 5 | Poland | POL |

#### Write SQL queries to

1. Create a view from a single table.

Create a simple view for client table.

1. Create a view from multiple tables.

Create a view that will display Client\_ID, Name, Country, and Country\_Code columns data for all five clients.

1. Inserting a new roll in a view.
2. Updating a row in a view.
3. Deleting a row in a view.
4. Drop a view in SQL.

**Queries:**

1. **Create a view from a single table.**

**Create a simple view for client table.**

SQL> CREATE VIEW Client\_Email\_IDs AS

2 SELECT Email\_ID

3 FROM Client;

1. **Create a view from multiple tables.**

**Create a view that will display Client\_ID, Name, Country, and Country\_Code columns data for all five clients.**

SQL> CREATE VIEW Client\_Details AS

2 SELECT Cl.ID, Cl.Name, Co.Country, Co.Country\_Code

3 FROM Country Co, Client Cl

4 WHERE Cl.ID = Co.ID;

1. **Inserting a new roll in a view.**

SQL> INSERT INTO Client\_Email\_IDs

2 VALUES(6,’jo.com’);

1. **Updating a row in a view.**

SQL> CREATE OR REPLACE VIEW Client\_Details AS

2 SELECT Cl.ID, Cl.Name, Cl.Email\_ID, Co.Country, Co.Country\_Code,

4 FROM Country Co, Client Cl

5 WHERE Cl.ID = Co.ID;

1. **Deleting a row in a view.**

SQL> DELETE FROM Client\_Email\_IDs

2 WHERE ID = 6;

1. **Drop a view in SQL.**

SQL> DROP VIEW Client\_Email\_IDs;

**Code:**

SQL> create table Client(ID number(1), Name varchar2(20), Email\_ID varchar2(20), primary key(ID));

Table created.

SQL> desc client

Name Null? Type

----------------------------------------- -------- ----------------------------

ID NOT NULL NUMBER(1)

NAME VARCHAR2(20)

EMAIL\_ID VARCHAR2(20)

SQL> create table Country(ID number(1), Country varchar2(20), Country\_Code varchar2(20), primary key(ID));

Table created.

SQL> desc country

Name Null? Type

----------------------------------------- -------- ----------------------------

ID NOT NULL NUMBER(1)

COUNTRY VARCHAR2(20)

COUNTRY\_CODE VARCHAR2(20)

SQL> insert into client values(1,'George','ge.com');

1 row created.

SQL> insert into client values(2,'David','da.com');

1 row created.

SQL> insert into client values(3,'Chris','ch.com');

1 row created.

SQL> insert into client values(4,'Morrison','mo.com');

1 row created.

SQL> insert into client values(5,'Brian','cor.com');

1 row created.

SQL> insert into Country values(1,'India','IND');

1 row created.

SQL> insert into Country values(2,'Spain','ESP');

1 row created.

SQL> insert into Country values(3,'France','FRA');

1 row created.

SQL> insert into Country values(4,'Poland','POL');

1 row created.

SQL> DELETE FROM country WHERE Country = 'Poland';

1 row deleted.

SQL> insert into Country values(4,'England','ENG');

1 row created.

SQL> insert into Country values(5,'Poland','POL');

1 row created.

SQL> select \* from Country;

ID COUNTRY COUNTRY\_CODE

---------- -------------------- --------------------

1 India IND

2 Spain ESP

3 France FRA

4 England ENG

5 Poland POL

SQL> select \* from Client;

ID NAME EMAIL\_ID

---------- -------------------- --------------------

1 George ge.com

2 David da.com

3 Chris ch.com

4 Morrison mo.com

5 Brian cor.com

SQL> CREATE VIEW Client\_Email\_IDs AS

2 SELECT Email\_ID

3 FROM Client;

View created.

SQL> select \* from Client\_Email\_IDs;

EMAIL\_ID

--------------------

ge.com

da.com

ch.com

mo.com

cor.com

SQL> CREATE VIEW Client\_Details AS

2 SELECT Cl.ID, Cl.Name, Co.Country, Co.Country\_Code

3 FROM Country Co, Client Cl

4 WHERE Cl.ID = Co.ID;

View created.

SQL> select \* from Client\_Details;

ID NAME COUNTRY COUNTRY\_CODE

---------- -------------------- -------------------- --------------------

1 George India IND

2 David Spain ESP

3 Chris France FRA

4 Morrison England ENG

5 Brian Poland POL

SQL> CREATE OR REPLACE VIEW Client\_Details AS

2 SELECT Cl.ID, Cl.Name, Cl.Email\_ID, Co.Country, Co.Country\_Code

3 FROM Country Co, Client Cl

4 WHERE Cl.ID = Co.ID;

View created.

SQL> set linesize 1500;

SQL> select \* from Client\_Details;

ID NAME EMAIL\_ID COUNTRY COUNTRY\_CODE

---------- -------------------- -------------------- -------------------- --------------------

1 George ge.com India IND

2 David da.com Spain ESP

3 Chris ch.com France FRA

4 Morrison mo.com England ENG

5 Brian cor.com Poland POL

SQL> drop view client\_email\_ids;

View dropped.

SQL> CREATE VIEW Client\_Email\_IDs AS select id, email\_id from client;

View created.

SQL> select \* from client\_email\_ids;

ID EMAIL\_ID

---------- --------------------

1 ge.com

2 da.com

3 ch.com

4 mo.com

5 cor.com

SQL> insert into client\_email\_ids values (6,'jo.com');

1 row created.

SQL> select \* from client\_email\_ids;

ID EMAIL\_ID

---------- --------------------

1 ge.com

2 da.com

3 ch.com

4 mo.com

5 cor.com

6 jo.com

6 rows selected.

SQL> select \* from client;

ID NAME EMAIL\_ID

---------- -------------------- --------------------

1 George ge.com

2 David da.com

3 Chris ch.com

4 Morrison mo.com

5 Brian cor.com

6 jo.com

6 rows selected.

SQL> DELETE FROM Client\_email\_ids where id=6;

1 row deleted.

SQL> select \* from client\_email\_ids;

ID EMAIL\_ID

---------- --------------------

1 ge.com

2 da.com

3 ch.com

4 mo.com

5 cor.com

SQL> select \* from client;

ID NAME EMAIL\_ID

---------- -------------------- --------------------

1 George ge.com

2 David da.com

3 Chris ch.com

4 Morrison mo.com

5 Brian cor.com