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## Lab 4

A.

1)

```
CREATE TABLE games(  
  g_id NUMBER,  
  g_name VARCHAR2(20) NOT NULL,  
  g_price NUMBER(8,3),  
  g_quantitymade NUMBER NOT NULL,  
  release_date DATE,  
  PRIMARY KEY(g_id)  
);  
  
CREATE TABLE store(  
  s_id NUMBER,  
  s_name VARCHAR2(25) NOT NULL,  
  s_location VARCHAR2(50) NOT NULL,  
  s_quantity NUMBER NOT NULL,  
  s_contact CHAR(10) NOT NULL,  
  g_id NUMBER,  
  PRIMARY KEY(s_id)  
);
```

2)

Table 1

```
PRIMARY KEY(g_id)
```

Table 2

```
PRIMARY KEY(s_id)
```

3) The Primary Keys and the Foreign Keys are the Constraints in the 2 tables

```
CREATE TABLE store(  
  s_id NUMBER,  
  s_name VARCHAR2(25) NOT NULL,  
  s_location VARCHAR2(50) NOT NULL,  
  s_quantity NUMBER NOT NULL,  
  s_contact CHAR(10) NOT NULL,  
  g_id NUMBER,  
  PRIMARY KEY(s_id)  
);  
  
ALTER TABLE store ADD CONSTRAINT fk_store_games  
  FOREIGN KEY(g_id) REFERENCES games(g_id);
```

4)

The Foreign Key is the relationship that ties both of the tables together.

```
FOREIGN KEY(g_id) REFERENCES games(g_id);
```

B.  
1)

```
--Games
INSERT INTO games VALUES (1, 'Assassins Creed', 40, 9000, DATE '2007-06-25');
INSERT INTO games VALUES (2, 'Transformers', 30, 5000, DATE '2009-08-30');
INSERT INTO games VALUES (3, 'Minecraft', 35, 2000, DATE '2011-11-18');
INSERT INTO games VALUES (4, 'Fortnite', 29.99, 6000, DATE '2017-07-21');
INSERT INTO games VALUES (5, 'CallofDuty', 99.99, 7000, DATE '2020-11-19');

--Store
INSERT INTO store VALUES (1, 'Walmart', 'Laval', 100, '450-969-3226', 1);
INSERT INTO store VALUES (2, 'EB Games', 'Chateaugay', 500, '450-699-9011', 2);
INSERT INTO store VALUES (3, 'Best Buy', 'Laval', 200, '450-781-2030', 3);
INSERT INTO store VALUES (4, 'La Source', 'Montreal', 300, '450-689-7905', 4);
INSERT INTO store VALUES (5, 'Walmart', 'Montreal', 400, '514-832-4810', 5);
```

Script Output x

Task completed in 0.024 seconds

1 row inserted.

1 row inserted.

1 row inserted.

1 row inserted.

1 row inserted.

1 row inserted.

2)

Before the Update

|   | G_ID | G_NAME          | G_PRICE | G_QUANTITY | RELEASE_DATE |
|---|------|-----------------|---------|------------|--------------|
| 1 | 1    | Assassins Creed | 40      | 9000       | 07-06-25     |
| 2 | 2    | Transformers    | 30      | 5000       | 09-08-30     |
| 3 | 3    | Minecraft       | 35      | 2000       | 11-11-18     |
| 4 | 4    | Fortnite        | 29.99   | 6000       | 17-07-21     |
| 5 | 5    | CallofDuty      | 99.99   | 7000       | 20-11-19     |

|   | S_ID | S_NAME    | S_LOCATION | S_QUANTITY | S_CONTACT    | G_ID |
|---|------|-----------|------------|------------|--------------|------|
| 1 | 1    | Walmart   | Laval      | 100        | 450-969-3226 | 1    |
| 2 | 2    | EB Games  | Chateaugay | 500        | 450-699-9011 | 2    |
| 3 | 3    | Best Buy  | Laval      | 200        | 450-781-2030 | 3    |
| 4 | 4    | La Source | Montreal   | 300        | 450-689-7905 | 4    |
| 5 | 5    | Walmart   | Montreal   | 400        | 514-832-4810 | 5    |

### After the Update

```
--Update
UPDATE games
SET
  g_price = 70,
  g_quantity = 8000,
  release_date = '2020-12-31'
WHERE
  g_id = 4;
```

| G_ID | G_NAME            | G_PRICE | G_QUANTITY | RELEASE_DATE |
|------|-------------------|---------|------------|--------------|
| 1    | 1 Assassins Creed | 40      | 9000       | 07-06-25     |
| 2    | 2 Transformers    | 30      | 5000       | 09-08-30     |
| 3    | 3 Minecraft       | 35      | 2000       | 11-11-18     |
| 4    | 4 Fortnite        | 70      | 8000       | 20-12-31     |
| 5    | 5 CallofDuty      | 99.99   | 7000       | 20-11-19     |

3)

### Before the Delete

| G_ID | G_NAME            | G_PRICE | G_QUANTITY | RELEASE_DATE |
|------|-------------------|---------|------------|--------------|
| 1    | 1 Assassins Creed | 40      | 9000       | 07-06-25     |
| 2    | 2 Transformers    | 30      | 5000       | 09-08-30     |
| 3    | 3 Minecraft       | 35      | 2000       | 11-11-18     |
| 4    | 4 Fortnite        | 29.99   | 6000       | 17-07-21     |
| 5    | 5 CallofDuty      | 99.99   | 7000       | 20-11-19     |

| S_ID | S_NAME      | S_LOCATION | S_QUANTITY | S_CONTACT    | G_ID |
|------|-------------|------------|------------|--------------|------|
| 1    | 1 Walmart   | Laval      | 100        | 450-969-3226 | 1    |
| 2    | 2 EB Games  | Chateaugay | 500        | 450-699-9011 | 2    |
| 3    | 3 Best Buy  | Laval      | 200        | 450-781-2030 | 3    |
| 4    | 4 La Source | Montreal   | 300        | 450-689-7905 | 4    |
| 5    | 5 Walmart   | Montreal   | 400        | 514-832-4810 | 5    |

### After the Delete

```
--Delete
DELETE
FROM store
WHERE
  s_location = 'Montreal';
```

| S_ID | S_NAME     | S_LOCATION | S_QUANTITY | S_CONTACT    | G_ID |
|------|------------|------------|------------|--------------|------|
| 1    | 1 Walmart  | Laval      | 100        | 450-969-3226 | 1    |
| 2    | 2 EB Games | Chateaugay | 500        | 450-699-9011 | 2    |
| 3    | 3 Best Buy | Laval      | 200        | 450-781-2030 | 3    |