CSIS05I
Database systems II

Lab (1)

GENERAL REVISION-SOLUTIONS

Lab (1) Solutions

Exercises:

1- Create Store database:

```
CREATE DATABASE Store;
```

2- The creation of all the tables within the Store database:

```
CREATE TABLE Customer
(
CustomerID          INT             NOT NULL,
CustFirstName       VARCHAR(30),
CustLastName        VARCHAR(30),
CustomerDOB         VARCHAR(30),
CustomerPhone       VARCHAR(30),
CustomerAddress     VARCHAR(30),

CONSTRAINT Customer_pk PRIMARY KEY (CustomerID)

);
CREATE TABLE Order
(
OrderID             INT             NOT NULL,
CID                 INT             NOT NULL,
DateOFOrder         VARCHAR(30),
OrderStatus         VARCHAR(30),

CONSTRAINT Order_pk PRIMARY KEY (OrderID),
```

```
CONSTRAINT Customer_Order_fk
FOREIGN KEY (CID) REFERENCES Customer (CustomerID)
);


CREATE TABLE Product
(
PID             INT             NOT NULL,

PName           VARCHAR(20),

PDescription    VARCHAR(30),

CONSTRAINT Product_pk PRIMARY KEY (PID)
);

CREATE TABLE Order_details
(
OrderID         INT             NOT NULL,
ProductID       INT             NOT NULL,
Quantity        INT,


CONSTRAINT Orderdetails_pk PRIMARY KEY (OrderID, ProductID),

CONSTRAINT Order_Product_fk FOREIGN KEY (OrderID) REFERENCES Order
(OrderID),

CONSTRAINT Product_Order_fk FOREIGN KEY (ProductID) REFERENCES
Product (PID)
);
```

3- Insert 3 rows for each of the following relations:

a. Customer

```
INSERT INTO Customer VALUES ('1', 'Mark', 'Smith', '26/01/1993', '01001589678', 'New Cairo');

INSERT INTO Customer VALUES ('2', 'Marhia' , 'John', '14/05/1990', '05454784328', 'Montana');

INSERT INTO Customer VALUES ('3', 'Steven', 'Branden', '18/12/1960', '021654125845', 'New Jersy');
```

b. Order

```
INSERT INTO Order VALUES ('101', '1', '26/7/2019', 'Delivered');

INSERT INTO Order VALUES ('102', '2', '26/8/2019', 'Delivered');

INSERT INTO Order VALUES ('103', '3', '26/9/2019', 'NotDelivered');
```

c. Product

```
INSERT INTO Product VALUES('201 ', 'TV', 'Smart TV');

INSERT INTO Product VALUES('202 ', 'Camera', 'Sony Camera');

INSERT INTO Product VALUES('203 ', 'Mobile', 'Iphone11');
```

d. Order_details

```
INSERT INTO Order_details VALUES('101 ', '201', '10');

INSERT INTO Order_details VALUES('102', '202', '5');

INSERT INTO Order_details VALUES('103', '203', '15');
```

4- Retrieve all the customers information

```
SELECT *
FROM Customer;
```

5- Retrieve the products name, ID and its quantity

```
SELECT PID, PName, Quantity
FROM Product, Order_Details
WHERE Product.PID = Order_Details.ProductID;
```

6- Retrieve all the Customers ID and First Name that have their order delivered.

```
SELECT CustomerID, CustFirstName, OrderID ,OrderStatus
FROM Customer , Order
WHERE CustomerID=CID AND OrderStatus='Delivered';
```

Or

```
SELECT CustomerID, CustFirstName, OrderID , OrderStatus
FROM Customer JOIN Order
ON CustomerID=CID
WHERE OrderStatus='Delivered';
```