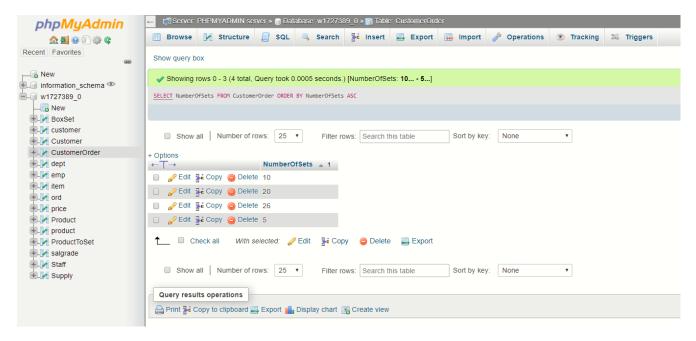


Entity	Primary key (PK)	Foreign Key (FK)	Rationale for PK
Customer	CustomerID	N/A	CustomerID is unique to
			each Customer
CustomerOrder	OrderID	SetID	Customer Order is unique
		CustomerID	to each order
		StaffID	
Supply	SupplyID	N/A	SupplyID is unique to each
			Supply
Product	ProductID	SupplyID	ProductID is unique to
			each Product
ProductToSet	psID	ProductID	PSID is unique to each
		SetID	Product to Set
BoxSet	SetID	N/A	SetID is unique to each
			Set
Staff	StaffID	N/A	StaffID is Unique to each
			staff

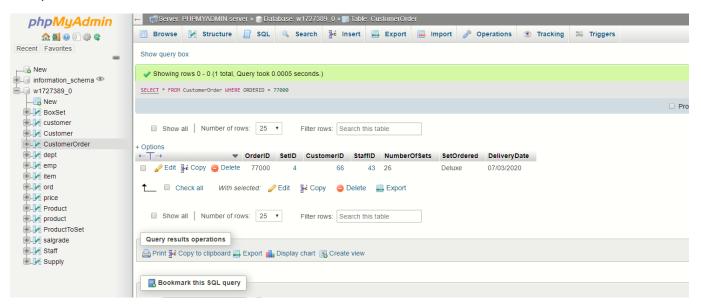
Query no	purpose	Tables involved	SQL	Correct execution
1	To open the staff table and show the FirstName column in the alphabetically order.	1 table - Staff	SELECT FirstName FROM Staff ORDER BY FirstName	yes
2	To open the customer order table and show the number of sets column in the order of ascending	1 table - CustomerOrder	SELECT NumberOfSets FROM CustomerOrder ORDER BY NumberOfSets ASC	yes
3	To open the customer order table and select any information that matches '77000' from the order id table.	1 table - CustomerOrder	<pre>SELECT * FROM CustomerOrder WHERE ORDERID = 77000</pre>	yes
4	To open the customer table and select First name column and show the result that matches the Clout avenue address.	1 table - Customer	SELECT FirstName FROM Customer WHERE Address = 'Clout Avenue'	yes
		DMIN server » 🗻 Database: w1727:	389_0 » 📊 Table: Staff	
Recent Favorite New Information W1727389 New BoxSet Custom Custo	Show query box schema Showing rows 0 - 3 SELECT FirstName FROM S Show all Nu + Options - Options - Options - Edit 3-6 Copy - Edit 3-6 Copy - Edit 3-6 Copy - Check all	Showing rows 0 - 3 (4 total, Query took 0.0005 seconds.) [FirstName: CHRIS LIN] SELECT FirstName FROM Staff ORDER BY FirstName Show all Number of rows: 25 ▼ Filter rows: Search this table Sort by key: None ▼ + Options		

Query no:1

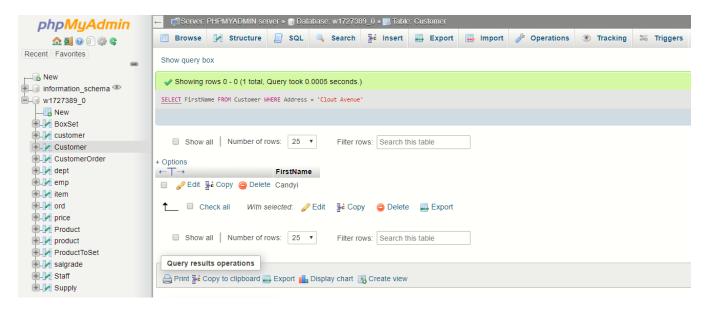
Query results operations



Query no:2



Query no:3



Query no:4

SQL script file – Table Creation

```
CREATE TABLE Customer
        CustomerID
                                 INTEGER(20),
                         VARCHAR(100) NOT NULL,
        Email
        FirstName
                                 VARCHAR(50) NOT NULL,
        SecondName
                                 VARCHAR(50) NOT NULL,
        CustomerTelNo
                         VARCHAR(25) NOT NULL,
        CustomerType
                         VARCHAR(20) NOT NULL,
                                 VARCHAR(30) NOT NULL,
        Address
        CONSTRAINT c_cid_pk PRIMARY KEY (CustomerID)
);
CREATE TABLE CustomerOrder
        OrderID
                         INTEGER(20),
        SetID
                         INTEGER(20),
                                 INTEGER(20),
        CustomerID
```

```
StaffID
                                  INTEGER(20),
        NumberOfSets
                         VARCHAR(50) NOT NULL,
        SetOrdered
                                  VARCHAR(50) NOT NULL,
        DeliveryDate
                         VARCHAR(50) NOT NULL,
        CONSTRAINT c_oid_pk PRIMARY KEY (OrderID),
        CONSTRAINT c_sid_fk FOREIGN KEY (SetID) REFERENCES BoxSet (SetID),
        CONSTRAINT c_cid_fk FOREIGN KEY (CustomerID) REFERENCES Customer (CustomerID),
        CONSTRAINT c_stid_fk FOREIGN KEY (StaffID) REFERENCES Staff (StaffID)
);
CREATE TABLE Supply
(
        SupplyID
                         INTEGER(15),
        SupplierName VARCHAR(25) NOT NULL,
        CONSTRAINT s_sid_pk PRIMARY KEY (SupplyID)
);
CREATE TABLE Product
(
        ProductID
                                  INTEGER(20),
        SupplyID
                         INTEGER(20),
        ProductName
                                  VARCHAR(15) NOT NULL,
        Description
                                  VARCHAR(30) NOT NULL,
        CONSTRAINT p_pid_pk PRIMARY KEY (ProductID),
        CONSTRAINT p_Sid_fk FOREIGN KEY (SupplyID) REFERENCES Supply (SupplyID)
);
CREATE TABLE ProductToSet
        psID
                                  INTEGER(20),
        ProductID
                                  INTEGER(20),
```

```
SetID
                                  INTEGER(20),
        CONSTRAINT ps_psid_pk PRIMARY KEY (psID),
        CONSTRAINT ps_pid_fk FOREIGN KEY (ProductID) REFERENCES Product (ProductID),
        CONSTRAINT ps_sid_fk FOREIGN KEY (SetID) REFERENCES BoxSet (SetID)
);
CREATE TABLE BoxSet
(
        SetID
                                  INTEGER(20),
                                  VARCHAR(5) NOT NULL,
        Price
        Description
                                  VARCHAR(60) NOT NULL,
                                  VARCHAR(20) NOT NULL,
        SetName
        CONSTRAINT s_sid_pk PRIMARY KEY (SetID)
);
CREATE TABLE Staff
(
        StaffID
                          INTEGER(15),
        Email
                                  VARCHAR(50) NOT NULL,
        FirstName
                                  VARCHAR(50) NOT NULL,
        SecondName
                                  VARCHAR(50) NOT NULL,
        StaffTelNo
                                  VARCHAR(25) NOT NULL,
        CONSTRAINT s_sid_pk PRIMARY KEY (StaffID)
);
```

SQL Script Inserted into Database

```
///Customer///
INSERT INTO
Customer (CustomerID, Email, FirstName, SecondName, CustomerTelNo, CustomerType, Address)
VALUES (022, 'candyi@gmail.com', 'Land', 0738384848, 'Corporate Client', 'Clout Avenue');
```

INSERT INTO

Customer (CustomerID, Email, FirstName, SecondName, CustomerTelNo, CustomerType, Address)

VALUES (033, 'John@gmail.com', 'Jonh', 'Son', 0756384648, 'Young Professional', 'Newland Avenue');

INSERT INTO

Customer (CustomerID, Email, FirstName, SecondName, CustomerTelNo, CustomerType, Address)
VALUES (053, 'riley@gmail.com', 'Riley', 'Rid', 0718344545, 'Corporate Client', 'Lake Avenue');

INSERT INTO

Customer (CustomerID, Email, FirstName, SecondName, CustomerTelNo, CustomerType, Address)

VALUES (066, 'bob@gmail.com', 'Bob', 'Martin', 0728374848, 'Young Professional', 'NewYork Avenue');

\\\

///CustomerOrder///

INSERT INTO

CustomerOrder (OrderID, SetID, CustomerID, StaffID, NumberOfSets, SetOrdered, DeliveryDate)
VALUES (08000, 001, 22, 046, 20, 'Regular', '20/02/2020');

INSERT INTO

CustomerOrder (OrderID, SetID, CustomerID, StaffID, NumberOfSets, SetOrdered, DeliveryDate)
VALUES (04500, 003, 33, 045, 5, 'Deluxe', '30/08/2020');

INSERT INTO

CustomerOrder (OrderID, SetID, CustomerID, StaffID, NumberOfSets, SetOrdered, DeliveryDate)
VALUES (34000, 002, 53, 044, 10, 'Regular', '10/01/2020');

INSERT INTO

CustomerOrder (OrderID, SetID, CustomerID, StaffID, NumberOfSets, SetOrdered, DeliveryDate)
VALUES (77000, 004, 66, 043, 26, 'Deluxe', '07/03/2020');
\\\

INSERT INTO

```
///BoxSet///
INSERT INTO
BoxSet (SetID, Price, Description, Setname)
VALUES (001, 25.99, 'Affordable', 'Regular Care')
INSERT INTO
BoxSet (SetID, Price, Description, Setname)
VALUES (002, 25.99, 'Affordable', 'Regular Care')
INSERT INTO
BoxSet (SetID, Price, Description, Setname)
VALUES (003, 650, 'High Range', 'Deluxe Re-creation')
INSERT INTO
BoxSet (SetID, Price, Description, Setname)
VALUES (004, 650, 'High Range', 'Deluxe Re-creation')
///
///Staff///
INSERT INTO
Staff (StaffID, Email, FirstName, SecondName, StaffTelNo)
VALUES (046, 'Justin@gmail.com', 'Justin', 'Khan', 0788493098);
INSERT INTO
Staff (StaffID, Email, FirstName, SecondName, StaffTelNo)
VALUES (045, 'Chris@gmail.com', 'Chris', 'Lin', 0712393098);
INSERT INTO
Staff (StaffID, Email, FirstName, SecondName, StaffTelNo)
VALUES (044, 'lan@gmail.com', 'lan', 'Joerge', 0784593067);
```

```
Staff (StaffID, Email, FirstName, SecondName, StaffTelNo)
VALUES (043, 'Lin@gmail.com', 'Lin', 'Da', 0703945739);
///
///ProductToSet///
INSERT INTO
ProductToSet (psID, ProductID, SetID)
VALUES (3782, 2020, 001)
INSERT INTO
ProductToSet (psID, ProductID, SetID)
VALUES (3992, 2010, 002)
INSERT INTO
ProductToSet (psID, ProductID, SetID)
VALUES (3642, 2040, 003)
INSERT INTO
ProductToSet (psID, ProductID, SetID)
VALUES (3148, 2030, 004)
///
///Product///
INSERT INTO
Product (ProductID, SupplyID, ProductName, Description)
VALUES (2010, 3030, 'Shampoo', 'Soft and Clean')
INSERT INTO
Product (ProductID , SupplyID, ProductName, Description)
```

```
VALUES (2020, 4430, 'fragnance', 'Beauty and Smart')
INSERT INTO
Product (ProductID, SupplyID, ProductName, Description)
VALUES (2030, 5730, 'Cream', 'Delicios and Creamy')
INSERT INTO
Product (ProductID, SupplyID, ProductName, Description)
VALUES (2040, 8090, 'fragnance', 'Wakening Essesnce')
///
///Supply///
INSERT INTO
Supply (SupplyID, SupplierName)
VALUES (3030, 'SupplierGoods')
INSERT INTO
Supply (SupplyID, SupplierName)
VALUES (4430, 'MaterialSupply')
INSERT INTO
Supply (SupplyID, SupplierName)
VALUES (5730, 'GoodsMaker')
INSERT INTO
Supply (SupplyID, SupplierName)
VALUES (8090, 'PopsSupply')
///
```