-- create database

CREATE DATABASE assignment\_;

USE assignment\_;

-- create table salespeople

CREATE TABLE SalesPeople (

Snum INT PRIMARY KEY,

Sname VARCHAR(255) UNIQUE,

City VARCHAR(255),

Comm DECIMAL(5, 2)

);

-- Insert data into salespeople

INSERT INTO SalesPeople VALUES

(1001, 'Peel', 'London', 0.12),

(1002, 'Serres', 'Sanjose', 0.13),

(1004, 'Motika', 'London', 0.11),

(1007, 'Rifkin', 'Barcelona', 0.15),

(1003, 'Axelrod', 'Newyork', 0.10);

select \* from SalesPeople;

**OUTPUT:**

|  |  |  |  |
| --- | --- | --- | --- |
| Snum | Sname | City | Comm |
| 1001 | Peel | London | 0.12 |
| 1002 | Serres | Sanjose | 0.13 |
| 1003 | Axelrod | Newyork | 0.1 |
| 1004 | Motika | London | 0.11 |
| 1007 | Rifkin | Barcelona | 0.15 |

-- create table customer

CREATE TABLE Customers (

Cnum INT PRIMARY KEY,

Cname VARCHAR(255),

City VARCHAR(255) NOT NULL,

Snum INT,

FOREIGN KEY (Snum) REFERENCES SalesPeople(Snum)

);

-- Insert data into Customers

INSERT INTO Customers VALUES

(2001, 'Hoffman', 'London', 1001),

(2002, 'Giovanni', 'Rome', 1003),

(2003, 'Liu', 'Sanjose', 1002),

(2004, 'Grass', 'Berlin', 1002),

(2006, 'Clemens', 'London', 1001),

(2008, 'Cisneros', 'Sanjose', 1007),

(2007, 'Pereira', 'Rome', 1004);

select \* from Customers;

**OUTPUT:**

|  |  |  |  |
| --- | --- | --- | --- |
| Cnum | Cname | City | Snum |
| 2001 | Hoffman | London | 1001 |
| 2002 | Giovanni | Rome | 1003 |
| 2003 | Liu | Sanjose | 1002 |
| 2004 | Grass | Berlin | 1002 |
| 2006 | Clemens | London | 1001 |
| 2007 | Pereira | Rome | 1004 |
| 2008 | Cisneros | Sanjose | 1007 |

-- create table orders

CREATE TABLE Orders (

Onum INT PRIMARY KEY,

Amt DECIMAL(10, 2),

Odate DATE,

Cnum INT,

Snum INT,

FOREIGN KEY (Cnum) REFERENCES Customers(Cnum),

FOREIGN KEY (Snum) REFERENCES SalesPeople(Snum)

);

-- Insert data into orders

INSERT INTO Orders VALUES

(3001, 18.69, '1990-10-03', 2008, 1007),

(3003, 767.19, '1990-10-03', 2001, 1001),

(3002, 1900.10, '1990-10-03', 2007, 1004),

(3005, 5160.45, '1990-10-03', 2003, 1002),

(3006, 1098.16, '1990-10-03', 2008, 1007),

(3009, 1713.23, '1990-10-04', 2002, 1003),

(3007, 75.75, '1990-10-04', 2004, 1002),

(3008, 4273.00, '1990-10-05', 2006, 1001),

(3010, 1309.95, '1990-10-06', 2004, 1002),

(3011, 9891.88, '1990-10-06', 2006, 1001);

select \* from Orders;

**OUTPUT:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Onum | Amt | Odate | Cnum | Snum |
| 3001 | 18.69 | 03-10-1990 | 2008 | 1007 |
| 3002 | 1900.1 | 03-10-1990 | 2007 | 1004 |
| 3003 | 767.19 | 03-10-1990 | 2001 | 1001 |
| 3005 | 5160.45 | 03-10-1990 | 2003 | 1002 |
| 3006 | 1098.16 | 03-10-1990 | 2008 | 1007 |
| 3007 | 75.75 | 04-10-1990 | 2004 | 1002 |
| 3008 | 4273 | 05-10-1990 | 2006 | 1001 |
| 3009 | 1713.23 | 04-10-1990 | 2002 | 1003 |
| 3010 | 1309.95 | 06-10-1990 | 2004 | 1002 |
| 3011 | 9891.88 | 06-10-1990 | 2006 | 1001 |

**QUESTIONS:**

-- Count the number of Salesperson whose name begin with ‘a’/’A’.

SELECT COUNT(\*)

FROM SalesPeople

WHERE Sname like '%A' or '%a';

**OUTPUT:**

|  |
| --- |
| COUNT(\*) |
| 1 |

-- Display all the Salesperson whose all orders worth is more than Rs. 2000

SELECT S.Snum, S.Sname, S.City, S.Comm

FROM SalesPeople S

WHERE S.Snum IN (

SELECT O.Snum

FROM Orders O

GROUP BY O.Snum

HAVING SUM(O.Amt) > 2000

);

**OUTPUT:**

|  |  |  |  |
| --- | --- | --- | --- |
| Snum | Sname | City | Comm |
| 1001 | Peel | London | 0.12 |
| 1002 | Serres | Sanjose | 0.13 |

-- Count the number of Salesperson belonging to Newyork

SELECT COUNT(\*)

FROM SalesPeople

WHERE City = 'Newyork';

**OUTPUT:**

|  |
| --- |
| COUNT(\*) |
| 1 |

-- Display the number of Salespeople belonging to **London**and belonging to **Paris**.

SELECT City, COUNT(\*) as NumberOfSalespeople

FROM SalesPeople

WHERE City IN ('London', 'Paris')

GROUP BY City;

**OUTPUT:**

|  |  |
| --- | --- |
| City | NumberOfSalespeople |
| London | 2 |

-- Display the number of orders taken by each Salesperson and their date of orders.

SELECT S.Snum, S.Sname, O.Odate, COUNT(\*) AS NumberOfOrders

FROM SalesPeople S

JOIN Orders O ON S.Snum = O.Snum

GROUP BY S.Snum, S.Sname, O.Odate

ORDER BY S.Snum, O.Odate;

**OUTPUT:**

|  |  |  |  |
| --- | --- | --- | --- |
| Snum | Sname | Odate | NumberOfOrders |
| 1001 | Peel | 03-10-1990 | 1 |
| 1001 | Peel | 05-10-1990 | 1 |
| 1001 | Peel | 06-10-1990 | 1 |
| 1002 | Serres | 03-10-1990 | 1 |
| 1002 | Serres | 04-10-1990 | 1 |
| 1002 | Serres | 06-10-1990 | 1 |
| 1003 | Axelrod | 04-10-1990 | 1 |
| 1004 | Motika | 03-10-1990 | 1 |
| 1007 | Rifkin | 03-10-1990 | 2 |