Assignment

mysql> create table SalesPeople(

-> Snum INT,

-> Sname VARCHAR(15),

-> City VARCHAR(15),

-> Comm INT,

-> Primary key(Snum),

-> Unique key(Sname)

-> );

Query OK, 0 rows affected (0.05 sec)

mysql> create table Customers(

-> Cnum INT,

-> Cname VARCHAR(15),

-> City VARCHAR(15) NOT NULL,

-> Snum INT,

-> FOREIGN KEY (Snum) REFERENCES SalesPeople (Snum) on DELETE CASCADE,

-> PRIMARY KEY (Cnum)

-> );

Query OK, 0 rows affected (0.06 sec)

mysql> create table Orders(

-> Onum INT,

-> Amt INT,

-> Odate DATE,

-> Snum INT,

-> Cnum INT,

-> PRIMARY KEY (Onum),

-> FOREIGN KEY (Snum) REFERENCES SalesPeople (Snum) on DELETE CASCADE,

-> FOREIGN KEY (Cnum) REFERENCES Customers (Cnum) on DELETE CASCADE

-> );

Query OK, 0 rows affected (0.06 sec)

mysql> Insert INTO Salespeople (Snum,Sname,City,Comm)

-> Values

-> (1001,'Peel','London',12);

Query OK, 1 row affected (0.02 sec)

mysql> Insert INTO Salespeople (Snum,Sname,City,Comm)

-> Values

-> (1002,'Serres','Sanjose',13),

-> (1004,'Motika','London',11),

-> (1007,'Rifkin','Barcelona',15),

-> (1003,'Axelrod','Newyork',10);

Query OK, 4 rows affected (0.01 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> select \* from Salespeople;

+------+---------+-----------+------+

| Snum | Sname | City | Comm |

+------+---------+-----------+------+

| 1001 | Peel | London | 12 |

| 1002 | Serres | Sanjose | 13 |

| 1003 | Axelrod | Newyork | 10 |

| 1004 | Motika | London | 11 |

| 1007 | Rifkin | Barcelona | 15 |

+------+---------+-----------+------+

5 rows in set (0.00 sec)

mysql> Insert INTO Customers (Cnum,Cname,City,Snum)

-> 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);

Query OK, 7 rows affected (0.01 sec)

Records: 7 Duplicates: 0 Warnings: 0

mysql> select \* from customers;

+------+----------+---------+------+

| 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 |

+------+----------+---------+------+

7 rows in set (0.00 sec)

mysql> Insert INTO Orders (Onum,Amt,Odate,Snum,Cnum)

-> Values

-> (3001, 18.69, str\_to\_date('3-10-1990','%m-%d-%Y'), 1007,2008),

-> (3003, 767.19, str\_to\_date('3-10-1990','%m-%d-%Y'), 1001,2001),

-> (3002, 1900.10, str\_to\_date('3-10-1990','%m-%d-%Y'), 1004,2007),

-> (3005, 5160.45, str\_to\_date('3-10-1990','%m-%d-%Y'), 1002,2003),

-> (3006, 1098.16, str\_to\_date('3-10-1990','%m-%d-%Y'), 1007,2008),

-> (3009, 1713.23, str\_to\_date('4-10-1990','%m-%d-%Y'), 1003,2002),

-> (3007, 75.75, str\_to\_date('4-10-1990','%m-%d-%Y'), 1002,2004),

-> (3008, 4273.00, str\_to\_date('5-10-1990','%m-%d-%Y'), 1001,2006),

-> (3010, 1309.95, str\_to\_date('6-10-1990','%m-%d-%Y'), 1002,2004),

-> (3011, 9891.88, str\_to\_date('6-10-1990','%m-%d-%Y'), 1001,2006);

Query OK, 10 rows affected (0.01 sec)

Records: 10 Duplicates: 0 Warnings: 0

mysql> select \* from orders;

+------+------+------------+------+------+

| Onum | Amt | Odate | Snum | Cnum |

+------+------+------------+------+------+

| 3001 | 19 | 1990-03-10 | 1007 | 2008 |

| 3002 | 1900 | 1990-03-10 | 1004 | 2007 |

| 3003 | 767 | 1990-03-10 | 1001 | 2001 |

| 3005 | 5160 | 1990-03-10 | 1002 | 2003 |

| 3006 | 1098 | 1990-03-10 | 1007 | 2008 |

| 3007 | 76 | 1990-04-10 | 1002 | 2004 |

| 3008 | 4273 | 1990-05-10 | 1001 | 2006 |

| 3009 | 1713 | 1990-04-10 | 1003 | 2002 |

| 3010 | 1310 | 1990-06-10 | 1002 | 2004 |

| 3011 | 9892 | 1990-06-10 | 1001 | 2006 |

+------+------+------------+------+------+

10 rows in set (0.00 sec)

Ans 1)

mysql> Select count(Sname) from SalesPeople where Sname Rlike '^[aA]';

+--------------+

| count(Sname) |

+--------------+

| 1 |

+--------------+

1 row in set (0.02 sec)

Ans2)

mysql> select s.sname from Salespeople s JOIN Orders o On s.snum = o.snum where o.amt > 2000;

+--------+

| sname |

+--------+

| Serres |

| Peel |

| Peel |

+--------+

3 rows in set (0.00 sec)

Ans3)

mysql> select count(snum) from Salespeople where City = 'Newyork';

+-------------+

| count(snum) |

+-------------+

| 1 |

+-------------+

1 row in set (0.00 sec)

Ans4)

mysql> select count(snum) from Salespeople where City = 'london' or City = 'Paris';

+-------------+

| count(snum) |

+-------------+

| 2 |

+-------------+

1 row in set (0.00 sec)

Ans5)

mysql> select s.snum, s.sname,o.Odate from salespeople s JOIN Orders o ON s.snum = o.snum;

+------+---------+------------+

| snum | sname | Odate |

+------+---------+------------+

| 1003 | Axelrod | 1990-04-10 |

| 1004 | Motika | 1990-03-10 |

| 1001 | Peel | 1990-03-10 |

| 1001 | Peel | 1990-05-10 |

| 1001 | Peel | 1990-06-10 |

| 1007 | Rifkin | 1990-03-10 |

| 1007 | Rifkin | 1990-03-10 |

| 1002 | Serres | 1990-03-10 |

| 1002 | Serres | 1990-04-10 |

| 1002 | Serres | 1990-06-10 |

+------+---------+------------+

10 rows in set (0.00 sec)