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A Practical activity Report submitted for UCS310

## **DATABASE**

## **MANAGEMENT**

# **SYSTEM**



Computer Science and Engineering
Patiala Campus
2021

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## **Evaluative Assignment**

### Solution -

```
SQL Worksheet
    1 CREATE TABLE SalesPeople
    3
                Snum int Primary Key,
                Sname varchar(20) Unique,
    5
                City varchar(20),
                Comm Decimal(4,2)
    8 Drop Table SalesPeople;
   9 Drop Table Customers;
  10 Drop table Orders;
 11 INSERT INTO SalesPeople VALUES(1001, 'Peel', 'London', .12);
12 INSERT INTO SalesPeople VALUES(1002 ,'Serres', 'Sanjose', .13);
13 INSERT INTO SalesPeople VALUES(1004 , 'Motika' ,'London' ,.11);
14 INSERT INTO SalesPeople VALUES(1007 ,'Rifkin', 'Barcelona', .15);
15 INSERT INTO SalesPeople VALUES(1003, 'Axelrod' ,'Newyork', .10);
  16   SELECT * FROM SalesPeople;
  17 CREATE TABLE Customers
  18 (
  19
                Cnum int Primary Key,
  20
                Cname varchar(20),
  21
                City varchar(20) Not Null,
   22
                Snum int,
   23
                Constraint Fkey Foreign Key (Snum) References SalesPeople(Snum)
  24 );
   26 INSERT INTO Customers VALUES(2001, 'Hoffman', 'London', 1001);
  INSERT INTO Customers VALUES(2002, 'Giovanni', 'Rome', 1003);
INSERT INTO Customers VALUES(2003, 'Liu', 'Sanjose', 1002);
INSERT INTO Customers VALUES(2004, 'Grass', 'Berlin', 1002);
INSERT INTO Customers VALUES(2006, 'Clemens', 'London', 1001);
   31 INSERT INTO Customers VALUES(2008, 'Cisneros', 'Sanjose', 1007);
```

```
SQL Worksheet
       INSERT INTO Customers VALUES(2007, 'Pereira', 'Rome', 1004);
       SELECT * FROM Customers;
  35
       CREATE TABLE Orders
  36
       (
  37
             Onum int Primary Key,
  38
              Amt Number(6),
  39
             Odate Date ,
  40
              Cnum int,
  41
              Snum int,
  42
              Constraint Fkey1 Foreign Key (Snum) References SalesPeople(Snum),
  43
              Constraint Fkey2 Foreign Key (Cnum) References Customers(Cnum)
       );
  44
  45
  46
       INSERT INTO Orders VALUES(3001, 18.69, DATE '1990-10-03', 2008, 1007);
  47
  48 INSERT INTO Orders VALUES(3003, 767.19, DATE '1990-10-03', 2001, 1001);

49 INSERT INTO Orders VALUES(3002, 1900.10, DATE '1990-10-03', 2007, 1004);

50 INSERT INTO Orders VALUES(3005, 5160.45, DATE '1990-10-03', 2003, 1002);
  51 INSERT INTO Orders VALUES(3006, 1098.16, DATE '1990-10-03', 2008 ,1007);
52 INSERT INTO Orders VALUES(3009, 1713.23, DATE '1990-10-04', 2002 ,1003);
  53 INSERT INTO Orders VALUES(3007, 75.75, DATE '1990-10-04', 2004 ,1002);
  54 INSERT INTO Orders VALUES(3008, 4273.00, DATE '1990-10-05', 2006 ,1001);
55 INSERT INTO Orders VALUES(3010, 1309.95, DATE '1990-10-06', 2004 ,1002);
  56 INSERT INTO Orders VALUES(3011, 9891.88, DATE '1990-10-06', 2006 ,1001);
       SELECT * FROM Orders;
```

```
Select Snum as Id, Sname As SalesPerson From SalesPeople where Comm between 0.10 and 0.12;

--2

SELECT * FROM SalesPeople WHERE INSTR(Sname,'%') > 0;

--3

SELECT MAX(AMT) as Maximum, CNUM as Customer_Name, ODATE As OrderDate FROM ORDERS GROUP BY CNUM, ODATE HAVING MAX(AMT) BETWEEN 2000 AND 6000;

--4

SELECT Sname As SalesPerson FROM SalesPeople WHERE Snum in (SELECT Snum FROM Customers Group BY Snum HAVING COUNT(Cnum) > 1);

--5

SELECT Cname As CustomerName FROM Customers WHERE ( Cname LIKE 'A%'

or Cname LIKE 'B%'
or Cname LIKE 'B%'
or Cname LIKE 'C%'
or Cname LIKE 'E%'
or Cname LIKE 'F%'
o
```

### Script:

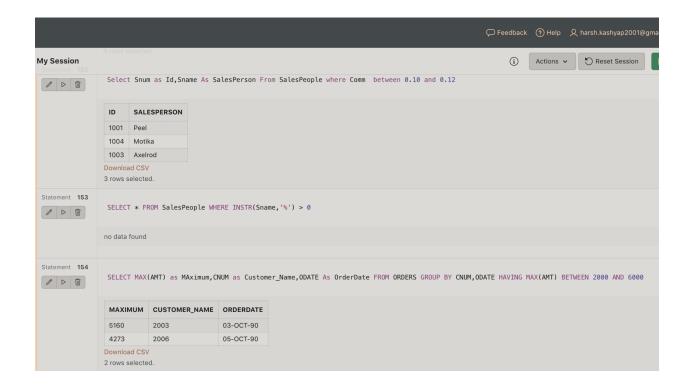
```
CREATE TABLE SalesPeople (
Snum int Primary Key,
Sname varchar(20) Unique,
City varchar(20),
Comm Decimal(4,2)
);
INSERT INTO SalesPeople VALUES(1001, 'Peel', 'London', .11);
INSERT INTO SalesPeople VALUES(1002, 'Serres', 'Sanjose', .13);
INSERT INTO SalesPeople VALUES(1004, 'Motika', 'London', .11);
```

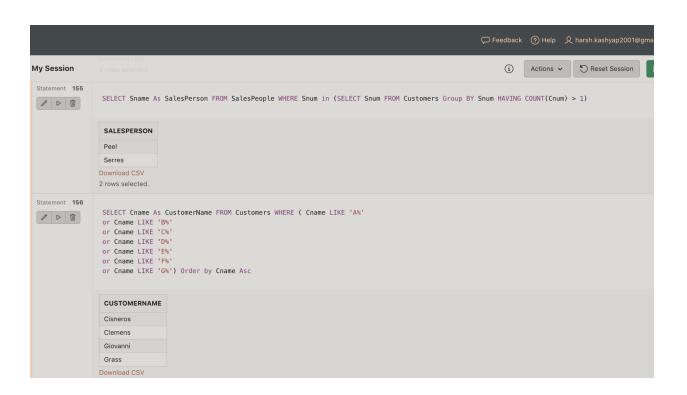
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INSERT INTO SalesPeople VALUES(1007, 'Rifkin', 'Barcelona', .15);
INSERT INTO SalesPeople VALUES(1003, 'Axelrod', 'Newyork', .10);
SELECT * FROM SalesPeople;
CREATE TABLE Customers
Cnum int Primary Key,
Cname varchar(20),
City varchar(20) Not Null,
Snum int,
Constraint Fkey Foreign Key (Snum) References SalesPeople(Snum)
INSERT INTO Customers VALUES(2001, 'Hoffman', 'London', 1001);
INSERT INTO Customers VALUES(2002, 'Giovanni', 'Rome', 1003);
INSERT INTO Customers VALUES(2003, 'Liu', 'Sanjose', 1002);
INSERT INTO Customers VALUES(2004, 'Grass', 'Berlin', 1002);
INSERT INTO Customers VALUES(2006, 'Clemens', 'London', 1001);
INSERT INTO Customers VALUES(2008, 'Cisneros', 'Sanjose', 1007):
INSERT INTO Customers VALUES(2007, 'Pereira', 'Rome', 1004);
SELECT * FROM Customers:
CREATE TABLE Orders
  Onum int Primary Key,
  Amt Number(6),
  Odate Date,
  Cnum int.
  Snum int.
  Constraint Fkey1 Foreign Key (Snum) References SalesPeople(Snum),
  Constraint Fkey2 Foreign Key (Cnum) References Customers(Cnum)
INSERT INTO Orders VALUES(3001, 18.69, DATE '1990-10-03', 2008, 1007);
INSERT INTO Orders VALUES(3003, 767.19, DATE '1990-10-03', 2001, 1001);
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INSERT INTO Orders VALUES(3010, 1309.95, DATE '1990-10-06', 2004, 1002);
INSERT INTO Orders VALUES(3011, 9891.88, DATE '1990-10-06', 2006, 1001);
SELECT * FROM Orders;
--1
Select Snum as Id, Sname As SalesPerson From SalesPeople where Comm between 0.10 and 0.12;
SELECT * FROM SalesPeople WHERE INSTR(Sname,'%') > 0;
--3
SELECT MAX(AMT) as MAximum, CNUM as Customer Name, ODATE As OrderDate FROM ORDERS GROUP BY
CNUM, ODATE HAVING MAX(AMT) BETWEEN 2000 AND 6000;
SELECT Sname As SalesPerson FROM SalesPeople WHERE Snum in (SELECT Snum FROM Customers Group
BY Snum HAVING COUNT(Cnum) > 1);
SELECT Cname As CustomerName FROM Customers WHERE ( Cname LIKE 'A%'
or Cname LIKE 'B%'
or Cname LIKE 'C%'
or Cname LIKE 'D%'
or Cname LIKE 'E%'
or Cname LIKE 'F%'
```

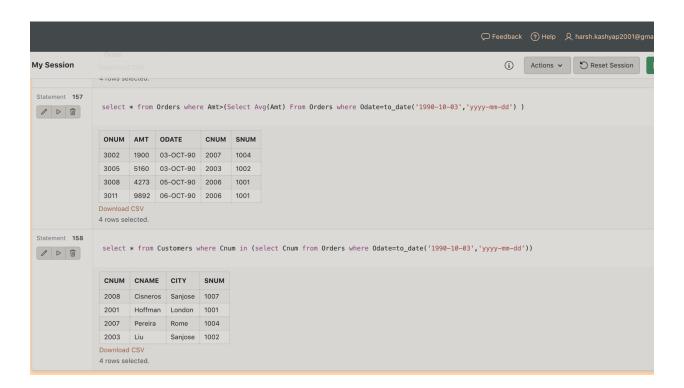
```
or Cname LIKE 'G%') Order by Cname Asc;
--6
select * from Orders where Amt>(Select Avg(Amt) From Orders where Odate=to_date('1990-10-03','yyyy-mm-dd') );
--7
select * from Customers where Cnum in (select Cnum from Orders where
Odate=to_date('1990-10-03','yyyy-mm-dd'));
```

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### **Screenshots**







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Thank you...