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CSE 4

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A Practical activity Report submitted for UCS310

# DATABASE MANAGEMENT SYSTEM



THAPAR INSTITUTE  
OF ENGINEERING & TECHNOLOGY  
(Deemed to be University)

Computer Science and Engineering

Patiala Campus

2021

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# Evaluative Assignment

## Solution -

### SQL Worksheet

```
1 CREATE TABLE SalesPeople
2 (
3     Snum int Primary Key,
4     Sname varchar(20) Unique,
5     City varchar(20),
6     Comm Decimal(4,2)
7 );
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 );
25
26 INSERT INTO Customers VALUES(2001, 'Hoffman', 'London', 1001);
27 INSERT INTO Customers VALUES(2002 , 'Giovanni', 'Rome', 1003);
28 INSERT INTO Customers VALUES(2003 , 'Liu', 'Sanjose', 1002);
29 INSERT INTO Customers VALUES(2004 , 'Grass', 'Berlin', 1002);
30 INSERT INTO Customers VALUES(2006, 'Clemens', 'London', 1001);
31 INSERT INTO Customers VALUES(2008 , 'Cisneros', 'Sanjose', 1007);
```

## SQL Worksheet

```
32 INSERT INTO Customers VALUES(2007, 'Pereira', 'Rome', 1004);
33 SELECT * FROM Customers;
34
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
47 INSERT INTO Orders VALUES(3001, 18.69, DATE '1990-10-03', 2008, 1007);
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);
57 SELECT * FROM Orders;
58
```

```
1 SELECT * FROM Orders;
2 --1
3 Select Snum as Id, Sname As SalesPerson From SalesPeople where Comm between 0.10 and 0.12;
4 --2
5 SELECT * FROM SalesPeople WHERE INSTR(Sname, '%') > 0;
6 --3
7 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;
8 --4
9 SELECT Sname As SalesPerson FROM SalesPeople WHERE Snum in (SELECT Snum FROM Customers Group BY Snum HAVING COUNT(Cnum) > 1);
10 --5
11 SELECT Cname As CustomerName FROM Customers WHERE ( Cname LIKE 'A%'
12 or Cname LIKE 'B%'
13 or Cname LIKE 'C%'
14 or Cname LIKE 'D%'
15 or Cname LIKE 'E%'
16 or Cname LIKE 'F%'
17 or Cname LIKE 'G%') Order by Cname Asc;
18 --6
19 select * from Orders where Amt > (Select Avg(Amt) From Orders where Odate=to_date('1990-10-03', 'yyyy-mm-dd') );
20 --7
21 select * from Customers where Cnum in (select Cnum from Orders where Odate=to_date('1990-10-03', 'yyyy-mm-dd'));
```

## 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);
```

```
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);
```

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

```
INSERT INTO Orders VALUES(3005, 5160.45, DATE '1990-10-03', 2003 ,1002);
```

```
INSERT INTO Orders VALUES(3006, 1098.16, DATE '1990-10-03', 2008 ,1007);
```

```
INSERT INTO Orders VALUES(3009, 1713.23, DATE '1990-10-04', 2002 ,1003);
```

```
INSERT INTO Orders VALUES(3007, 75.75, DATE '1990-10-04', 2004 ,1002);
```

```
INSERT INTO Orders VALUES(3008, 4273.00, DATE '1990-10-05', 2006 ,1001);
```

```
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;
```

```
--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 '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'));
```

---

## Screenshots

The screenshot displays a SQL IDE interface with a dark header bar containing 'Feedback', 'Help', and a user profile 'harsh.kashyap2001@gmail'. Below the header, the 'My Session' tab is active, showing a list of statements. Statement 152 is selected, displaying its SQL query and a table of results. Statement 153 is also visible, showing a query that returned 'no data found'. Statement 154 is at the bottom, showing a query with a table of results.

**Statement 152**

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

ID	SALESPERSON
1001	Peel
1004	Motika
1003	Axelrod

[Download CSV](#)  
3 rows selected.

**Statement 153**

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

no data found

**Statement 154**

```
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
```

MAXIMUM	CUSTOMER_NAME	ORDERDATE
5160	2003	03-OCT-90
4273	2006	05-OCT-90

[Download CSV](#)  
2 rows selected.

FeedbackHelpharsh.kashyap2001@gmail

My Session

Download CSV  
2 rows selected.

ActionsReset Session

Statement 155

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

SALESPERSON

Peel
Serres

Download CSV  
2 rows selected.

Statement 156

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

CUSTOMERNAME

Cisneros
Clemens
Giovanni
Grass

Download CSV

FeedbackHelpharsh.kashyap2001@gmail

My Session

Download CSV  
4 rows selected.

ActionsReset Session

Statement 157

select \* from Orders where Amt>(Select Avg(Amt) From Orders where Odate=to\_date('1990-10-03','yyyy-mm-dd'))

ONUM	AMT	ODATE	CNUM	SNUM
3002	1900	03-OCT-90	2007	1004
3005	5160	03-OCT-90	2003	1002
3008	4273	05-OCT-90	2006	1001
3011	9892	06-OCT-90	2006	1001

Download CSV  
4 rows selected.

Statement 158

select \* from Customers where Cnum in (select Cnum from Orders where Odate=to\_date('1990-10-03','yyyy-mm-dd'))

CNUM	CNAME	CITY	SNUM
2008	Cisneros	Sanjose	1007
2001	Hoffman	London	1001
2007	Pereira	Rome	1004
2003	Liu	Sanjose	1002

Download CSV  
4 rows selected.

---

**Thank you...**