1. Create 'spj' database'.
2. Create following tables in spj database.
CREAT TABLE S
(S# CHAR(5) NOT NULL, Sname CHAR(20), status SMALLINT, city CHAR(15));
TABLE S
S# Sname status city
==========
S1 Smith 20 London
S2 Jones 10 Paris
S3 Blake 30 Paris
S4 Clark 20 London
S5 Adams 30 Athens

```
1    -- create database spj
2    -- create table `spj`.`s` (
3    -- `#S` char(5) not null,
4    -- `Sname` char(20) null,
5    -- `status` smallint null,
6    -- `city` char(45) null );
7    use spj;
8    insert into s values ('S1', 'Smith', '20', 'London');
9    insert into s values ('S2', 'Jones', '10', 'Paris');
10   insert into s values ('S3', 'Blake', '30', 'Paris');
11   insert into s values ('S4', 'Clark', '20', 'London');
12   insert into s values ('S5', 'Adams', '30', 'Athens');
13   select * from s;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

#S	Sname	status	city
S1	Smith	20	London
S2	Jones	10	Paris
S3	Blake	30	Paris
S4	Clark	20	London
S5	Adams	30	Athens

CREATE TABLE P
(P# CHAR(6) NOT NULL, Pname CHAR(20), color CHAR(6), weight SMALLINT , city CHAR(15));
TABLE P
P# Pname Color Weight City
==========
P1 Nut Red 12 London
P2 Bolt Green 17 Paris
P3 Screw Blue 17 Rome
P4 Screw Red 14 London
P5 Cam Blue 12 Paris
P6 Cog Red 19 London

```
15 • create table `spj`.`p` (
16    `#P` char(6) not null,
17    `Pname` char(20),
18    `colour` char(6),
19    `weight` smallint,
20    `city` char(15));
21 • use spj;
22 • insert into p values ('P1', 'Nut', 'Red', '12', 'London');
23 • insert into p values ('P2', 'Bolt', 'Green', '17', 'Paris');
24 • insert into p values ('P3', 'Screw', 'Blue', '17', 'Rome');
25 • insert into p values ('P4', 'Screw', 'Red', '14', 'London');
26 • insert into p values ('P5', 'Cam', 'Blue', '12', 'Paris');
27 • insert into p values ('P6', 'Cog', 'Red', '19', 'London');
28 • select * from p;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

#P	Pname	colour	weight	city
P1	Nut	Red	12	London
P2	Bolt	Green	17	Paris
P3	Screw	Blue	17	Rome
P4	Screw	Red	14	London
P5	Cam	Blue	12	Paris
P6	Cog	Red	19	London

CREATE TABLE J (J# CHAR(4) NOT NULL, Jname CHAR(10), City CHAR(15));
TABLE J
J# Jname City
==========
J1 Sorter Paris
J2 Punch Rome
J3 Reader Athens
J4 Console Athens
J5 Collator London
J6 Terminal Oslo
J7 Tape London

```
30 • create table `spj`.`j` (
31   `#J` char(6) not null,
32   `Jname` char(20),
33   `city` char(15) );
34 • use spj;
35 • insert into j values ('J1', 'Sorter', 'Paris');
36 • insert into j values ('J2', 'Punch', 'Rome');
37 • insert into j values ('J3', 'Reader', 'Athens');
38 • insert into j values ('J4', 'Console', 'Athens');
39 • insert into j values ('J5', 'Collator', 'London');
40 • insert into j values ('J6', 'Terminal',  'Oslo');
41 • insert into j values ('J7', 'tape', 'London');
42 • select * from j;
43
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

#J	Jname	city
J1	Sorter	Paris
J2	Punch	Rome
J3	Reader	Athens
J4	Console	Athens
J5	Collator	London
J6	Terminal	Oslo
J7	tape	London

Database Technologies – Assignment 1

Sunbeam Institute of Information Technology Pune & Karad

CREATE TABLE sp (S# CHAR(4) NOT NULL, P# CHAR(4) NOT NULL, J# CHAR(4) NOT NULL, QTY INT);

TABLE SP

S# P# J# QTY

==========

S1 P1 J1 200
S1 P1 J4 700
S2 P3 J1 400
S2 P3 J2 200
S2 P3 J3 200
S2 P3 J4 500
S2 P3 J5 600
S2 P3 J6 400
S2 P3 J7 800
S2 P5 J2 100
S3 P3 J1 200
S3 P4 J2 500
S4 P6 J3 300
S4 P6 J7 300
S5 P2 J2 200
S5 P2 J4 100
S5 P5 J5 500
S5 P5 J7 100
S5 P6 J2 200
S5 P1 J4 100
S5 P3 J4 200
S5 P4 J4 800
S5 P5 J4 400
S5 P6 J4 500

```
44 • create table `spj`.`sp` (
45     `#S` char(4) not null,
46     `#P` char(4) not null,
47     `#J` char(4) not null,
48     `QTY` int);
49 • use spj;
50 • insert into sp values ('S1', 'P1', 'J1', '200');
51 • insert into sp values ('S1', 'P1', 'J4', '700');
52 • insert into sp values ('S2', 'P3', 'J1', '400');
53 • insert into sp values ('S2', 'P3', 'J2', '200');
54 • insert into sp values ('S2', 'P3', 'J3', '200');
55 • insert into sp values ('S2', 'P3', 'J4', '500');
56 • insert into sp values ('S2', 'P3', 'J5', '600');
57 • insert into sp values ('S2', 'P3', 'J6', '400');
58 • insert into sp values ('S2', 'P3', 'J7', '800');
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

#S	#P	#J	QTY
S1	P1	J1	200
S1	P1	J4	700
S2	P3	J1	400
S2	P3	J2	200
S2	P3	J3	200
S2	P3	J4	500
S2	P3	J5	600

1. Write a query that produces all rows from the Customers table for which the salesperson's number is 1001.
2. Write a select command that produces the rating followed by the name of each customer in San Jose.
3. Write a query that will produce the snum values of all salespeople from the Orders table (with the duplicate values suppressed).
4. Write a query that will give you all orders for more than Rs. 1,000.
5. Write a query that will give you the names and cities of all salespeople in London with a commission above 0.10.
6. Write a query on the Customers table whose output will exclude all customers with a rating <= 100, unless they are located in Rome.
7. What will be the output from the following query?

Select * from Orders
where (amt < 1000 OR
NOT (odate = '1990-10-03'
AND cnum > 2003));

8. What will be the output of the following query?

```
Select * from Orders
where NOT ((odate = ‘1990-10-03’ OR snum >1006) AND amt >= 1500);
```

9. What is a simpler way to write this query?

```
Select snum, sname, city, comm from Salespeople
Where (comm >= .12 or comm <= .14);
```

10. Write a query that selects all of the customers serviced by Peel or Motika. (Hint:the snum field relates the two tables to one another).

11. Write a query that selects all orders except those with zeroes or NULLs in the amt field.