

# DBMS LAB 1

NAME: **SALONI RAKHOLIYA** ROLL NUMBER: **106119109**

## QUESTION 1:

```
-- CREATE DATABASE projectdetails;
-- \c projectdetails;
-- \i /home/saloni/dbmslab/lab1_1.sql

CREATE TABLE employee(
    empid INT PRIMARY KEY NOT NULL,
    empname VARCHAR(50) NOT NULL,
    address VARCHAR(150) NOT NULL,
    doj DATE NOT NULL,
    salary INT NOT NULL
);

CREATE TABLE project(
    projectno INT PRIMARY KEY NOT NULL,
    duration INT NOT NULL,
    projectname VARCHAR(100)
);

CREATE TABLE workson(
    empid BIGINT NOT NULL,
    projno BIGINT NOT NULL,
    FOREIGN KEY (empid) REFERENCES employee(empid),
    FOREIGN KEY (projno) REFERENCES project(projectno)
);

INSERT INTO employee(empid, empname, address, doj, salary) VALUES
(1,'Saloni R','Pearl plaza', DATE'2001-09-1', 1500);
INSERT INTO employee(empid, empname, address, doj, salary) VALUES (2,'Megh
S','gwalior', DATE'2002-06-12', 1500);
INSERT INTO employee(empid, empname, address, doj, salary) VALUES
(3,'Sneha R','chennai 12', DATE'2005-05-23', 1500);
INSERT INTO employee(empid, empname, address, doj, salary) VALUES
(4,'Viswonathan M','musaffah 5', DATE'2011-12-21', 1500);
INSERT INTO employee(empid, empname, address, doj, salary) VALUES
(5,'Udit','trichy 9', DATE'1998-01-04', 1500);
```

```

INSERT INTO employee(empid, empname, address, doj, salary) VALUES
(6,'Pradeep S','chennai 8', DATE'2011-01-27', 1500);
INSERT INTO employee(empid, empname, address, doj, salary) VALUES
(7,'Bhanan Abdul','burj', DATE'2020-07-14', 1500);
INSERT INTO employee(empid, empname, address, doj, salary) VALUES (8,'Boha
mehta','gujarat', DATE'2004-11-11', 1500);

INSERT INTO project(projectno,duration,projectname) VALUES (1,2,'Build a
recommendar system');
INSERT INTO project(projectno,duration,projectname) VALUES (2,3,'State
machine project');
INSERT INTO project(projectno,duration,projectname) VALUES
(3,4,'Randomised algorithms');
INSERT INTO project(projectno,duration,projectname) VALUES
(4,1,'Automata');
INSERT INTO project(projectno,duration,projectname) VALUES (5,3,'Build a
NN');
INSERT INTO project(projectno,duration,projectname) VALUES (6,7,'LSTM');
INSERT INTO project(projectno,duration,projectname) VALUES (7,1,'Develop a
todo app');
INSERT INTO project(projectno,duration,projectname) VALUES (8,12,'Develop
a social media');
INSERT INTO project(projectno,duration,projectname) VALUES (9,3,'Develop a
exercise app');

INSERT INTO workson(empid, projno) VALUES (1,9);
INSERT INTO workson(empid, projno) VALUES (2,9);
INSERT INTO workson(empid, projno) VALUES (3,3);
INSERT INTO workson(empid, projno) VALUES (4,3);
INSERT INTO workson(empid, projno) VALUES (5,2);
INSERT INTO workson(empid, projno) VALUES (6,4);
INSERT INTO workson(empid, projno) VALUES (7,2);
INSERT INTO workson(empid, projno) VALUES (8,8);

-- question 1
SELECT * FROM employee ORDER BY empname DESC;
-- question 2
SELECT * FROM project WHERE projectno=2;
-- question 3
SELECT empname FROM employee WHERE empname LIKE 'B%';

```



```
empid
-----
      1
      2
(2 rows)
```

```
projectdetails=#
```

## QUESTION 2:

```
-- CREATE DATABASE studentdetails;
-- \c studentdetails;
-- \i /home/saloni/dbmslab/lab1_2.sql

CREATE TABLE student(
    rollno INT NOT NULL PRIMARY KEY,
    name VARCHAR(100) NOT NULL,
    mark_sub1 INT NOT NULL,
    mark_sub2 INT NOT NULL,
    mark_sub3 INT NOT NULL,
    mark_sub4 INT NOT NULL,
    mark_sub5 INT NOT NULL,
    mark_sub6 INT NOT NULL,
    total INT
);

CREATE TABLE department(
    deptid INT NOT NULL PRIMARY KEY,
    deptname VARCHAR(100) NOT NULL,
    hodname VARCHAR(100) NOT NULL
);

CREATE TABLE studdep(
    rollno INT NOT NULL ,
    deptid INT NOT NULL,
    FOREIGN KEY (rollno) REFERENCES student(rollno),
    FOREIGN KEY (deptid) REFERENCES department(deptid)
);
```

```
INSERT INTO student (rollno, name, mark_sub1, mark_sub2, mark_sub3,
mark_sub4, mark_sub5, mark_sub6) VALUES(1,'Saloni',20, 10,50,15,40,10);
INSERT INTO student (rollno, name, mark_sub1, mark_sub2, mark_sub3,
mark_sub4, mark_sub5, mark_sub6) VALUES(2,'Sneha',30,20,51,11,55,60);
INSERT INTO student (rollno, name, mark_sub1, mark_sub2, mark_sub3,
mark_sub4, mark_sub5, mark_sub6) VALUES(3,'Meghdeepa',100,
100,52,14,44,14);
INSERT INTO student (rollno, name, mark_sub1, mark_sub2, mark_sub3,
mark_sub4, mark_sub5, mark_sub6) VALUES(4,'Pradeep',100,
100,100,100,100,100);
INSERT INTO student (rollno, name, mark_sub1, mark_sub2, mark_sub3,
mark_sub4, mark_sub5, mark_sub6) VALUES(5,'Viswonathan',90,
80,90,100,100,100);
INSERT INTO student (rollno, name, mark_sub1, mark_sub2, mark_sub3,
mark_sub4, mark_sub5, mark_sub6) VALUES(6,'Subbu',10, 90,90,91,91,93);
INSERT INTO student (rollno, name, mark_sub1, mark_sub2, mark_sub3,
mark_sub4, mark_sub5, mark_sub6) VALUES(7,'Udit',90, 90,70,55,90,90);
INSERT INTO student (rollno, name, mark_sub1, mark_sub2, mark_sub3,
mark_sub4, mark_sub5, mark_sub6) VALUES(8,'Hanan',99, 100,75,92,64,76);
INSERT INTO student (rollno, name, mark_sub1, mark_sub2, mark_sub3,
mark_sub4, mark_sub5, mark_sub6) VALUES(9,'Deepesh',30, 30,80,65,32,43);
INSERT INTO student (rollno, name, mark_sub1, mark_sub2, mark_sub3,
mark_sub4, mark_sub5, mark_sub6) VALUES(10,'Marmik',30, 30,70,25,47,12);

INSERT INTO department (deptid, deptname, hodname) VALUES (1,'CSE', 'Dr
Priya');
INSERT INTO department (deptid, deptname, hodname) VALUES (2,'EEE', 'Dr
Raja');
INSERT INTO department (deptid, deptname, hodname) VALUES (3,'ECE', 'Dr
Sohan');

INSERT INTO studdep (rollno, deptid) VALUES (1,1);
INSERT INTO studdep (rollno, deptid) VALUES (2,2);
INSERT INTO studdep (rollno, deptid) VALUES (3,3);
INSERT INTO studdep (rollno, deptid) VALUES (4,1);
INSERT INTO studdep (rollno, deptid) VALUES (5,2);
INSERT INTO studdep (rollno, deptid) VALUES (6,3);
INSERT INTO studdep (rollno, deptid) VALUES (7,1);
INSERT INTO studdep (rollno, deptid) VALUES (8,2);
INSERT INTO studdep (rollno, deptid) VALUES (9,3);
```

```
INSERT INTO studdep (rollno, deptid) VALUES (10,1);

UPDATE student SET
total=mark_sub6+mark_sub5+mark_sub4+mark_sub3+mark_sub2+mark_sub1;
-- 2
SELECT student.rollno, student.name,
student.mark_sub1,student.mark_sub2,student.mark_sub3,student.mark_sub4,st
udent.mark_sub5,student.mark_sub6, student.total from student, studdep
WHERE student.rollno=studdep.rollno AND studdep.deptid=1;
-- 3
SELECT department.id, department.name, department.hodname from
department,studdep where department.deptid=studdep.deptid and
studdep.rollno=1;
-- 4
SELECT * FROM student WHERE total>500;
-- 5
SELECT hodname FROM department WHERE deptname='CSE';
-- 6
SELECT studdep.rollno FROM studdep, department where
department.deptid=studdep.deptid and department.deptname='CSE';
```

```

projectdetails=# CREATE DATABASE studentdetails;
CREATE DATABASE
projectdetails=# \c studentdetails;
You are now connected to database "studentdetails" as user "postgres".
studentdetails=# \i /home/saloni/dbmslab/lab1_2.sql
CREATE TABLE
CREATE TABLE
CREATE TABLE
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
UPDATE 10
rollno | name | mark_sub1 | mark_sub2 | mark_sub3 | mark_sub4 | mark_sub5 | mark_sub6 | total
-----+-----+-----+-----+-----+-----+-----+-----+-----
1 | Saloni | 20 | 10 | 50 | 15 | 40 | 10 | 145
4 | Pradeep | 100 | 100 | 100 | 100 | 100 | 100 | 600
7 | Udit | 90 | 90 | 70 | 55 | 90 | 90 | 485
10 | Marmik | 30 | 30 | 70 | 25 | 47 | 12 | 214
(4 rows)

psql:/home/saloni/dbmslab/lab1_2.sql:60: ERROR: column department.id does not exist
LINE 1: SELECT department.id, department.name, department.hodname fr...
^
rollno | name | mark_sub1 | mark_sub2 | mark_sub3 | mark_sub4 | mark_sub5 | mark_sub6 | total
-----+-----+-----+-----+-----+-----+-----+-----+-----
4 | Pradeep | 100 | 100 | 100 | 100 | 100 | 100 | 600
5 | Viswonathan | 90 | 80 | 90 | 100 | 100 | 100 | 560
8 | Hanan | 99 | 100 | 75 | 92 | 64 | 76 | 506
(3 rows)

hodname
-----
Dr Priya
(1 row)

```

```

rollno
-----
1
4
7
10
(4 rows)

studentdetails=# █

```

### QUESTION 3:

```
-- CREATE DATABASE salesdetails;
-- \c salesdetails;
-- \i /home/saloni/dbmslab/lab1_3.sql

CREATE TABLE salesperson(
    ssn INT PRIMARY KEY NOT NULL,
    name VARCHAR(50) NOT NULL,
    start_year INT NOT NULL,
    dept_no INT NOT NULL
);

CREATE TABLE trip(
    ssn INT NOT NULL,
    from_city VARCHAR(100),
    to_city VARCHAR(100),
    departure_date DATE,
    return_date DATE,
    trip_id INT PRIMARY KEY NOT NULL,
    FOREIGN KEY (ssn) REFERENCES salesperson(ssn)
);

CREATE TABLE salerep_expense(
    trip_id INT NOT NULL,
    expense_type VARCHAR(50),
    amount INT NOT NULL,
    FOREIGN KEY (trip_id) REFERENCES trip(trip_id)
);

INSERT INTO salesperson (ssn,name,start_year,dept_no) VALUES
(100,'Saloni',2001,1);
INSERT INTO salesperson (ssn,name,start_year,dept_no) VALUES (200,'Megh
S',2011,2);
INSERT INTO salesperson (ssn,name,start_year,dept_no) VALUES (300,'Sneha
S',2005,1);
INSERT INTO salesperson (ssn,name,start_year,dept_no) VALUES
(400,'Viswonathan M',2006,3);
```



```
INSERT INTO salesperson (ssn,name,start_year,dept_no) VALUES (500,'Pradeep
S',2006,1);
INSERT INTO salesperson (ssn,name,start_year,dept_no) VALUES (600,'Hanan
Ab',2011,3);
INSERT INTO salesperson (ssn,name,start_year,dept_no) VALUES (700,'Raj
gohil',2020,1);
INSERT INTO salesperson (ssn,name,start_year,dept_no) VALUES (800,'Jyothi
Rajesh',2021,5);
INSERT INTO salesperson (ssn,name,start_year,dept_no) VALUES
(900,'Shreyash',2015,4);
INSERT INTO salesperson (ssn,name,start_year,dept_no) VALUES
(1000,'Ahmed',2019,1);

INSERT INTO trip
(ssn,from_city,to_city,departure_date,return_date,trip_id) VALUES
(100,'mumbai','chennai',DATE'2001-09-1',DATE'2001-09-10',1);
INSERT INTO trip
(ssn,from_city,to_city,departure_date,return_date,trip_id) VALUES
(200,'delhi','mumbai',DATE'2011-10-1',DATE'2011-11-10',2);
INSERT INTO trip
(ssn,from_city,to_city,departure_date,return_date,trip_id) VALUES
(300,'mumbai','chennai',DATE'2001-02-22',DATE'2001-05-11',3);
INSERT INTO trip
(ssn,from_city,to_city,departure_date,return_date,trip_id) VALUES
(400,'jaipur','mumbai',DATE'2021-09-1',DATE'2021-09-10',4);
INSERT INTO trip
(ssn,from_city,to_city,departure_date,return_date,trip_id) VALUES
(500,'goa','jaipur',DATE'2015-09-1',DATE'2016-09-10',5);
INSERT INTO trip
(ssn,from_city,to_city,departure_date,return_date,trip_id) VALUES
(600,'raipur','gondal',DATE'2019-10-1',DATE'2020-10-22',6);
INSERT INTO trip
(ssn,from_city,to_city,departure_date,return_date,trip_id) VALUES
(700,'rajkot','dubai',DATE'2020-06-2',DATE'2020-09-23',7);
INSERT INTO trip
(ssn,from_city,to_city,departure_date,return_date,trip_id) VALUES
(800,'chennai','rajkot',DATE'2016-04-1',DATE'2017-05-30',8);
INSERT INTO trip
(ssn,from_city,to_city,departure_date,return_date,trip_id) VALUES
(900,'hyderabad','abu dhabi',DATE'2015-05-12',DATE'2015-07-15',9);
```

```
INSERT INTO trip
(ssn,from_city,to_city,departure_date,return_date,trip_id) VALUES
(1000,'vaapi','trichy',DATE'2016-06-1',DATE'2016-06-21',10);
INSERT INTO trip
(ssn,from_city,to_city,departure_date,return_date,trip_id) VALUES
(100,'ahmedabad','chennai',DATE'2005-07-1',DATE'2005-11-11',11);
INSERT INTO trip
(ssn,from_city,to_city,departure_date,return_date,trip_id) VALUES
(200,'kashi','kolkata',DATE'2002-08-1',DATE'2003-12-18',12);
INSERT INTO trip
(ssn,from_city,to_city,departure_date,return_date,trip_id) VALUES
(100,'haridwar','udaipur',DATE'2007-11-1',DATE'2007-12-19',13);

INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(1,'TRAVEL',2000);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(2,'TRAVEL',1500);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(3,'TRAVEL',3000);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(4,'TRAVEL',2000);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(5,'TRAVEL',4500);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(6,'TRAVEL',9800);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(7,'TRAVEL',1000);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(8,'TRAVEL',920);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(9,'TRAVEL',100);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(10,'TRAVEL',1230);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(11,'TRAVEL',8530);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(12,'TRAVEL',2134);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(13,'TRAVEL',3564);
```

```
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(1,'FOOD',100);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(2,'FOOD',2456);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(3,'FOOD',2311);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(4,'FOOD',1243);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(5,'FOOD',100);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(6,'FOOD',500);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(7,'FOOD',600);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(8,'FOOD',354);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(9,'FOOD',200);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(10,'FOOD',980);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(11,'FOOD',209);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(12,'FOOD',999);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(13,'FOOD',399);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(1,'STAY',1000);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(2,'STAY',1200);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(3,'STAY',4200);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(4,'STAY',6500);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(5,'STAY',1200);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(6,'STAY',900);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(7,'STAY',800);
```

```

INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(8,'STAY',100);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(9,'STAY',190);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(10,'STAY',720);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(11,'STAY',980);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(12,'STAY',870);
INSERT INTO salerep_expense (trip_id,expense_type, amount) VALUES
(13,'STAY',2100);

-- question 1
SELECT ssn,from_city,to_city,departure_date,return_date,trip_id
FROM
(SELECT trip.trip_id, trip.ssn, trip.from_city, trip.to_city,
trip.departure_date, trip.return_date,sum(salerep_expense.amount) total
FROM trip left join salerep_expense
ON trip.trip_id = salerep_expense.trip_id
GROUP BY trip.trip_id) data
WHERE data.total>2000;

-- question 2
SELECT ssn
FROM (SELECT ssn, count(*) FROM trip WHERE to_city='chennai'GROUP BY ssn)
g
WHERE count>1;

-- question 3
SELECT total FROM (SELECT trip.ssn,sum(salerep_expense.amount) total
FROM trip join salerep_expense
ON trip.trip_id = salerep_expense.trip_id
GROUP BY trip.ssn)g WHERE ssn=1000;

-- question 4
SELECT * FROM salesperson ORDER BY name ASC;

```



```

INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1

```

ssn	from_city	to_city	departure_date	return_date	trip_id
100	ahmedabad	chennai	2005-07-01	2005-11-11	11
300	mumbai	chennai	2001-02-22	2001-05-11	3
500	goa	jaipur	2015-09-01	2016-09-10	5
400	jaipur	mumbai	2021-09-01	2021-09-10	4
1000	vaapi	trichy	2016-06-01	2016-06-21	10
600	raipur	gondal	2019-10-01	2020-10-22	6
100	haridwar	udaipur	2007-11-01	2007-12-19	13
200	delhi	mumbai	2011-10-01	2011-11-10	2
700	rajkot	dubai	2020-06-02	2020-09-23	7
200	kashi	kolkata	2002-08-01	2003-12-18	12
100	mumbai	chennai	2001-09-01	2001-09-10	1

(11 rows)

```
ssn
```

```
-----
```

```
100
```

(1 row)

```
total
```

```
-----
```

```
2930
```

(1 row)

ssn	name	start_year	dept_no
1000	Ahmed	2019	1
600	Hanan Ab	2011	3
800	Jyothi Rajesh	2021	5
200	Megh S	2011	2
500	Pradeep S	2006	1
700	Raj gohil	2020	1
100	Saloni	2001	1
900	Shreyash	2015	4
300	Sneha S	2005	1
400	Viswonathan M	2006	3

(10 rows)

```
salesdetails=#
```

#### QUESTION 4:

```
-- CREATE DATABASE cardetails;
-- \c cardetails;
-- \i /home/saloni/dbmslab/lab1_4.sql

CREATE TABLE car(
    serial_no INT PRIMARY KEY NOT NULL,
    model VARCHAR(150) NOT NULL,
    manufacturer VARCHAR(150) NOT NULL,
    price BIGINT NOT NULL
);

CREATE TABLE options(
    serial_no INT NOT NULL,
    option_name VARCHAR(150) NOT NULL,
    price BIGINT NOT NULL,
    FOREIGN KEY (serial_no) REFERENCES car (serial_no)
);

CREATE TABLE salesperson(
    salesperson_id INT PRIMARY KEY,
    name VARCHAR(100) NOT NULL,
    phone CHAR(10)
);

CREATE TABLE sales(
    salesperson_id INT NOT NULL,
    serial_no INT NOT NULL,
    date DATE NOT NULL,
    sale_price BIGINT NOT NULL,
    FOREIGN KEY (serial_no) REFERENCES car(serial_no),
    FOREIGN KEY (salesperson_id) REFERENCES salesperson(salesperson_id)
);

INSERT INTO car (serial_no,model,manufacturer,price) VALUES (1,'model1',
'manufacturer1', 258000);
```

```
INSERT INTO car (serial_no,model,manufacturer,price) VALUES (2,'model2',
'manufacturer2', 126000);
INSERT INTO car (serial_no,model,manufacturer,price) VALUES (3,'model3',
'manufacturer3', 896000);
INSERT INTO car (serial_no,model,manufacturer,price) VALUES (4,'model4',
'manufacturer4', 124000);
INSERT INTO car (serial_no,model,manufacturer,price) VALUES (5,'model5',
'manufacturer5', 98000);
INSERT INTO car (serial_no,model,manufacturer,price) VALUES (6,'model6',
'manufacturer6', 986000);
INSERT INTO car (serial_no,model,manufacturer,price) VALUES (7,'model7',
'manufacturer7', 256280);
INSERT INTO car (serial_no,model,manufacturer,price) VALUES (8,'model8',
'manufacturer8', 76430);
INSERT INTO car (serial_no,model,manufacturer,price) VALUES (9,'model9',
'manufacturer9', 192840);
INSERT INTO car (serial_no,model,manufacturer,price) VALUES (10,'model10',
'manufacturer10', 816380);

INSERT INTO options(serial_no,option_name,price) VALUES
(1,'option1',250000);
INSERT INTO options(serial_no,option_name,price) VALUES
(2,'option2',120000);
INSERT INTO options(serial_no,option_name,price) VALUES
(3,'option3',432000);
INSERT INTO options(serial_no,option_name,price) VALUES
(9,'option4',194000);
INSERT INTO options(serial_no,option_name,price) VALUES
(10,'option5',230000);
INSERT INTO options(serial_no,option_name,price) VALUES
(6,'option6',987000);
INSERT INTO options(serial_no,option_name,price) VALUES
(7,'option7',143700);
INSERT INTO options(serial_no,option_name,price) VALUES
(8,'option8',817350);

INSERT INTO salesperson(salesperson_id,name,phone)
VALUES (1,'John',222222222);
```



```

INSERT INTO salesperson(salesperson_id,name,phone)
VALUES(2,'Sia',2435289762);
INSERT INTO salesperson(salesperson_id,name,phone)
VALUES(3,'Pop',1234567898);
INSERT INTO salesperson(salesperson_id,name,phone)
VALUES(4,'Bob',8765656565);
INSERT INTO salesperson(salesperson_id,name,phone)
VALUES(5,'Hela',9394959697);
INSERT INTO salesperson(salesperson_id,name,phone)
VALUES(6,'Yuyu',0192847663);
INSERT INTO salesperson(salesperson_id,name,phone)
VALUES(7,'Wener',6123905000);

INSERT INTO sales(salesperson_id,serial_no,date,sale_price) VALUES
(1,1,DATE'2001-09-1', 500000);
INSERT INTO sales(salesperson_id,serial_no,date,sale_price) VALUES
(1,2,DATE'2002-02-12', 120000);
INSERT INTO sales(salesperson_id,serial_no,date,sale_price) VALUES
(2,3,DATE'2004-06-15', 540000);
INSERT INTO sales(salesperson_id,serial_no,date,sale_price) VALUES
(4,4,DATE'2012-08-15', 870000);
INSERT INTO sales(salesperson_id,serial_no,date,sale_price) VALUES
(3,5,DATE'2008-03-2', 123000);
INSERT INTO sales(salesperson_id,serial_no,date,sale_price) VALUES
(5,6,DATE'2006-09-4', 532000);
INSERT INTO sales(salesperson_id,serial_no,date,sale_price) VALUES
(7,7,DATE'2003-12-15', 570000);
INSERT INTO sales(salesperson_id,serial_no,date,sale_price) VALUES
(6,8,DATE'2021-01-9', 572000);
INSERT INTO sales(salesperson_id,serial_no,date,sale_price) VALUES
(7,9,DATE'1999-12-22', 510000);
INSERT INTO sales(salesperson_id,serial_no,date,sale_price) VALUES
(1,10,DATE'1998-10-19', 123000);

-- question 1
select serial_no, manufacturer, sale_price
from (select
car.serial_no,car.model,car.manufacturer,car.price,g.sale_price from car
join (select sales.serial_no,sales.sale_price from sales
join salesperson

```

```
on sales.salesperson_id=salesperson.salesperson_id and
salesperson.name='John' ) g
on car.serial_no=g.serial_no) pp;

-- question 2
select serial_no, model
from car
where serial_no
not in (select car.serial_no from car join options on
car.serial_no=options.serial_no);

-- question 3
select sales.serial_no, model, sale_price
from sales
join (select
car.serial_no,car.model,car.manufacturer,car.price,options.option_name,opt
ions.price from car join options on car.serial_no=options.serial_no) g
on sales.serial_no=g.serial_no;

-- question 4
update salesperson
set phone=7227962460
where salesperson_id=2;
```



(2 rows)

serial_no	model	sale_price
1	model1	500000
2	model2	120000
3	model3	540000
6	model6	532000
7	model7	570000
8	model8	572000
9	model9	510000
10	model10	123000

(8 rows)

UPDATE 1

cardetails=# select \* from salesperson;

salesperson_id	name	phone
1	John	2222222222
3	Pop	1234567898
4	Bob	8765656565
5	Hela	9394959697
6	Yuyu	192847663
7	Wener	6123905000
2	Sia	7227962460

(7 rows)

cardetails=#