

DBMS

S20220010093

Question no 1 (a)

```
mysql> select*from customer;
```

Cust_ID	name	city	state	pincode	products	price
C101	Alex William	Indore	Madya pradesh	452013	chair	4000
C102	Alex William	Pune	Maharastra	652016	table	8000
C103	V.Iyer	Chennai	Tamil Nadu	752716	table	8001
C104	L.laxmi	Chennai	Tamil Nadu	752717	doll	200
C105	RAvi Teja	Hyderabad	Telangana	252727	doll	250
C106	Raj kumar	Delhi	Delhi	151127	Cricket kit	5250
C107	Tuner bond	Bhopal	Madhya Pradesh	451127	football kit	3250
C108	Nikhil Yadav	Chennai	Tamil Nadu	751127	footballkit	6250
C109	John	Mumbai	Maharstra	651127	footballkit	6255

```
9 rows in set (0.00 sec)
```

```
mysql> |
```

Q1-b(1,2)

```
mysql> select distinct name  
-> from customer;
```

name
Alex William
V.Iyer
L.laxmi
RAvi Teja
Raj kumar
Tuner bond
Nikhil Yadav
John

8 rows in set (0.00 sec)

```
mysql> select distinct name,city  
-> from customer;
```

name	city
Alex William	Indore
Alex William	Pune
V.Iyer	Chennai
L.laxmi	Chennai
RAvi Teja	Hyderabad
Raj kumar	Delhi
Tuner bond	Bhopal
Nikhil Yadav	Chennai
John	Mumbai

9 rows in set (0.00 sec)

Q1-b(3,4,5)

```
MySQL 8.0 Command Line Cli  x  +  -  
  
mysql> select*  
-> from products  
-> where ^C  
mysql> select*  
-> from customer  
-> where products like 'D%';  


| Cust_ID | name      | city      | state      | pincode | products | price |
|---------|-----------|-----------|------------|---------|----------|-------|
| C104    | L.laxmi   | Chennai   | Tamil Nadu | 752717  | doll     | 200   |
| C105    | RAvi Teja | Hyderabad | Telangana  | 252727  | doll     | 250   |

  
2 rows in set (0.01 sec)  
  
mysql> select*  
-> from customer  
-> where city = 'chennai';  


| Cust_ID | name         | city    | state      | pincode | products    | price |
|---------|--------------|---------|------------|---------|-------------|-------|
| C103    | V.Iyer       | Chennai | Tamil Nadu | 752716  | table       | 8001  |
| C104    | L.laxmi      | Chennai | Tamil Nadu | 752717  | doll        | 200   |
| C108    | Nikhil Yadav | Chennai | Tamil Nadu | 751127  | footballkit | 6250  |

  
3 rows in set (0.04 sec)  
  
mysql> select*  
-> from customer  
-> where Cust_ID ('C108','C104');  
ERROR 1305 (42000): FUNCTION 'customer.Cust_ID' does not exist  
mysql> select*  
-> from customer  
-> where Cust_ID IN('C108','C104');  


| Cust_ID | name         | city    | state      | pincode | products    | price |
|---------|--------------|---------|------------|---------|-------------|-------|
| C104    | L.laxmi      | Chennai | Tamil Nadu | 752717  | doll        | 200   |
| C108    | Nikhil Yadav | Chennai | Tamil Nadu | 751127  | footballkit | 6250  |

  
2 rows in set (0.00 sec)  
  
mysql> select*  
-> from customer  
-> where price >5000;
```

Q1_b(6,7,8)

```
mysql> select*
-> from customer
-> where price >5000;
+-----+-----+-----+-----+-----+-----+-----+
| Cust_ID | name       | city   | state   | pincode | products | price |
+-----+-----+-----+-----+-----+-----+-----+
| C102    | Alex William | Pune   | Maharashtra | 652016 | table     | 8000 |
| C103    | V.Iyer      | Chennai | Tamil Nadu  | 752716 | table     | 8001 |
| C106    | Raj kumar   | Delhi  | Delhi       | 151127 | Cricket kit | 5250 |
| C108    | Nikhil Yadav | Chennai | Tamil Nadu  | 751127 | footballkit | 6250 |
| C109    | John        | Mumbai | Maharstra  | 651127 | footballkit | 6255 |
+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.04 sec)

mysql> select*
-> from customer
-> ^C
mysql> select Cust_ID
-> from customer
-> where city IN ('Hyderabad','Delhi','pune');
+-----+
| Cust_ID |
+-----+
| C102    |
| C105    |
| C106    |
+-----+
3 rows in set (0.00 sec)

mysql> select*
-> from customer
-> where price > 2000 AND price <=5000;
+-----+-----+-----+-----+-----+-----+-----+
| Cust_ID | name       | city   | state   | pincode | products | price |
+-----+-----+-----+-----+-----+-----+-----+
| C101    | Alex William | Indore | Madya pradesh | 452013 | chair     | 4000 |
| C107    | Tuner bond  | Bhopal | Madhya Pradesh | 451127 | football kit | 3250 |
+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> select name,city,state
```

Q1_b(8,9,10)

```
MySQL 8.0 Command Line Cli  x  +  v

+-----+-----+-----+-----+-----+-----+-----+
| C101 | Alex William | Indore | Madya pradesh | 452013 | chair | 4000 |
| C107 | Tuner bond | Bhopal | Madhya Pradesh | 451127 | football kit | 3250 |
+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> select name,city,state
-> from customer
-> where state <> 'Tamil Nadu';
+-----+-----+-----+
| name | city | state |
+-----+-----+-----+
| Alex William | Indore | Madya pradesh |
| Alex William | Pune | Maharastra |
| RAvi Teja | Hyderabad | Telangana |
| Raj kumar | Delhi | Delhi |
| Tuner bond | Bhopal | Madhya Pradesh |
| John | Mumbai | Maharstra |
+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> UPDATE customer
-> set name = 'JohneY'
-> where name = 'John';
Query OK, 1 row affected (0.04 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select* from customer;
+-----+-----+-----+-----+-----+-----+-----+
| Cust_ID | name | city | state | pincode | products | price |
+-----+-----+-----+-----+-----+-----+-----+
| C101 | Alex William | Indore | Madya pradesh | 452013 | chair | 4000 |
| C102 | Alex William | Pune | Maharastra | 652016 | table | 8000 |
| C103 | V.Iyer | Chennai | Tamil Nadu | 752716 | table | 8001 |
| C104 | L.laxmi | Chennai | Tamil Nadu | 752717 | doll | 200 |
| C105 | RAvi Teja | Hyderabad | Telangana | 252727 | doll | 250 |
| C106 | Raj kumar | Delhi | Delhi | 151127 | Cricket kit | 5250 |
| C107 | Tuner bond | Bhopal | Madhya Pradesh | 451127 | football kit | 3250 |
| C108 | Nikhil Yadav | Chennai | Tamil Nadu | 751127 | footballkit | 6250 |
| C109 | Johney | Mumbai | Maharstra | 651127 | footballkit | 6255 |
+-----+-----+-----+-----+-----+-----+-----+
9 rows in set (0.00 sec)

mysql> |
```

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Question no 2 (1)

```
MySQL 8.0 Command Line Cli x + v
mysql> use harish
Database changed
mysql> INSERT INTO employee (emp_no, emp_name, doj, ph_no, dept_name, designation, salary, gender)
-> VALUES
-> (1234, 'Sarala', '2020-01-02', '9444123456', 'Sales', 'HR', 70000, 'F'),
-> (3452, 'Amogh', '2019-01-01', '9464123456', 'Sales', 'Sales manager', 72000, 'M'),
-> (4312, 'Qasim', '2019-04-01', '9444123423', 'Sales', 'Sales representative', 7000, 'M'),
-> (4112, 'Swathi', '2019-04-23', NULL, 'Sales', 'Typist', 3300, 'F'),
-> (6693, 'Manoj', '2019-03-01', '9444125357', 'HR', 'Marketing', 17000, 'M'),
-> (4345, 'Devi kumar', '2020-01-01', '9448563456', 'HR', 'HR', 70000, 'F'),
-> (5744, 'Hari dev', '2019-03-01', '9464893456', 'Marketing', 'Receptionist', 2000, 'M'),
-> (7899, 'William Jane', '2019-04-12', NULL, 'Marketing', 'Typist', 4000, 'F'),
-> (3451, 'Dennis', '2019-11-01', '8244125357', 'Marketing', 'sales representative', 7000, 'M'),
-> (2399, 'Govind', '2019-03-01', '8346123423', 'Accounts', 'Typist', 4500, 'M'),
-> (4599, 'Dhanad', '2019-04-02', '8456123423', 'Accounts', 'Typist', 4000, 'M'),
-> (2400, 'Khurana', '2019-03-01', '9448903423', 'Accounts', 'CA', 14500, 'M'),
-> (4600, 'Suraj', '2019-04-02', '9426123423', 'Accounts', 'CA', 46000, 'M');
Query OK, 13 rows affected (0.01 sec)
Records: 13 Duplicates: 0 Warnings: 0

mysql> select *from employee;
+-----+-----+-----+-----+-----+-----+-----+
| emp_no | emp_name | doj | ph_no | dept_name | designation | salary | gender |
+-----+-----+-----+-----+-----+-----+-----+
| 1234 | Sarala | 2020-01-02 | 9444123456 | Sales | HR | 70000.00 | F |
| 2399 | Govind | 2019-03-01 | 8346123423 | Accounts | Typist | 4500.00 | M |
| 2400 | Khurana | 2019-03-01 | 9448903423 | Accounts | CA | 14500.00 | M |
| 3451 | Dennis | 2019-11-01 | 8244125357 | Marketing | sales representative | 7000.00 | M |
| 3452 | Amogh | 2019-01-01 | 9464123456 | Sales | Sales manager | 72000.00 | M |
| 4112 | Swathi | 2019-04-23 | NULL | Sales | Typist | 3300.00 | F |
| 4312 | Qasim | 2019-04-01 | 9444123423 | Sales | Sales representative | 7000.00 | M |
| 4345 | Devi kumar | 2020-01-01 | 9448563456 | HR | HR | 70000.00 | F |
| 4599 | Dhanad | 2019-04-02 | 8456123423 | Accounts | Typist | 4000.00 | M |
| 4600 | Suraj | 2019-04-02 | 9426123423 | Accounts | CA | 46000.00 | M |
| 5744 | Hari dev | 2019-03-01 | 9464893456 | Marketing | Receptionist | 2000.00 | M |
| 6693 | Manoj | 2019-03-01 | 9444125357 | HR | Marketing | 17000.00 | M |
| 7899 | William Jane | 2019-04-12 | NULL | Marketing | Typist | 4000.00 | F |
+-----+-----+-----+-----+-----+-----+-----+
13 rows in set (0.00 sec)
```

Question no 2 (2)

```
mysql> insert into employee(emp_no,emp_name,doj,ph_no,dept_name,designation,salary,gender) values (1234,'Sarala','2020-01-02','9444123456','Sales','HR',70000,'F'),
-> (3452,'Amogh','2019-01-01','9464123456','Sales','Sales manager',72000,'M'),
-> (4312,'Qasim','2019-04-01','9444123423','Sales','Sales representative',7000,'M'),
-> (4112,'Swathi','2019-04-23',NULL,'Sales','Typist',3300,'F'),
-> (6693,'Manoj','2019-03-01','9444125357','HR','Marketing',17000,'M'),
-> (4345,'Devi kumar','2020-01-01','9448563456','HR','HR',70000,'F'),
-> (5744,'Hari dev','2019-03-01','9464893456','Marketing','Receptionist',2000,'M'),
-> (7899,'William Jane','2019-04-12',NULL,'Marketing','Typist',4000,'F'),
-> (3451,'Dennis','2019-11-01','8244125357','Marketing','sales representative',7000,'M'),
-> (2399,'Govind','2019-03-01','8346123423','Accounts','Typist',4500,'M'),
-> (4599,'Dhanad','2019-04-02','8456123423','Accounts','Typist',4000,'M'),
-> (2399,'Khurana','2019-03-01','9448903423','Accounts','CA',14500,'M'),
-> (4599,'Suraj','2019-04-02','9426123423','Accounts','CA',46000,'M');
Query OK, 13 rows affected (0.01 sec)
Records: 13 Duplicates: 0 Warnings: 0
```

```
mysql> select * from employee;
```

emp_no	emp_name	doj	ph_no	dept_name	designation	salary	gender
1234	Sarala	2020-01-02	9444123456	Sales	HR	70000	F
3452	Amogh	2019-01-01	9464123456	Sales	Sales manager	72000	M
4312	Qasim	2019-04-01	9444123423	Sales	Sales representative	7000	M
4112	Swathi	2019-04-23	NULL	Sales	Typist	3300	F
6693	Manoj	2019-03-01	9444125357	HR	Marketing	17000	M
4345	Devi kumar	2020-01-01	9448563456	HR	HR	70000	F
5744	Hari dev	2019-03-01	9464893456	Marketing	Receptionist	2000	M
7899	William Jane	2019-04-12	NULL	Marketing	Typist	4000	F
3451	Dennis	2019-11-01	8244125357	Marketing	sales representative	7000	M
2399	Govind	2019-03-01	8346123423	Accounts	Typist	4500	M
4599	Dhanad	2019-04-02	8456123423	Accounts	Typist	4000	M
2399	Khurana	2019-03-01	9448903423	Accounts	CA	14500	M
4599	Suraj	2019-04-02	9426123423	Accounts	CA	46000	M

```
13 rows in set (0.00 sec)
```


Question no 2 (3,4)

```
MySQL 8.0 Command Line Cli x + v

mysql> INSERT INTO employee (emp_no, emp_name, doj, ph_no, dept_name, designation, salary, gender)
-> VALUES
-> (1235, 'John Doe', '2022-01-15', '1234567890', 'Sales', 'Sales manager', 80000, 'M'),
-> (1236, 'Jane Smith', '2022-02-01', '9876543210', 'HR', 'HR', 65000, 'F'),
-> (1237, 'Michael Brown', '2022-03-20', '5556667777', 'Marketing', 'Receptionist', 2500, 'M');
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM employee;
```

emp_no	emp_name	doj	ph_no	dept_name	designation	salary	gender
1234	Sarala	2020-01-02	9444123456	Sales	HR	70000.00	F
1235	John Doe	2022-01-15	1234567890	Sales	Sales manager	80000.00	M
1236	Jane Smith	2022-02-01	9876543210	HR	HR	65000.00	F
1237	Michael Brown	2022-03-20	5556667777	Marketing	Receptionist	2500.00	M
2399	Govind	2019-03-01	8346123423	Accounts	Typist	4500.00	M
2400	Khurana	2019-03-01	9448903423	Accounts	CA	14500.00	M
3451	Dennis	2019-11-01	8244125357	Marketing	sales representative	7000.00	M
3452	Amogh	2019-01-01	9464123456	Sales	Sales manager	72000.00	M
4112	Swathi	2019-04-23	NULL	Sales	Typist	3300.00	F
4312	Qasim	2019-04-01	9444123423	Sales	Sales representative	7000.00	M
4345	Devi kumar	2020-01-01	9448563456	HR	HR	70000.00	F
4599	Dhanad	2019-04-02	8456123423	Accounts	Typist	4000.00	M
4600	Suraj	2019-04-02	9426123423	Accounts	CA	46000.00	M
5744	Hari dev	2019-03-01	9464893456	Marketing	Receptionist	2000.00	M
6693	Manoj	2019-03-01	9444125357	HR	Marketing	17000.00	M
7899	William Jane	2019-04-12	NULL	Marketing	Typist	4000.00	F

```
16 rows in set (0.00 sec)

mysql>
```

Question no 2 (5,6)

```
MySQL 8.0 Command Line Cli x + v

mysql> SELECT emp_no, emp_name
-> FROM employee
-> WHERE dept_name LIKE '%s';
+-----+-----+
| emp_no | emp_name |
+-----+-----+
| 1234   | Sarala   |
| 1235   | John Doe |
| 2399   | Govind   |
| 2400   | Khurana  |
| 3452   | Amogh    |
| 4112   | Swathi   |
| 4312   | Qasim    |
| 4599   | Dhanad   |
| 4600   | Suraj    |
+-----+-----+
9 rows in set (0.00 sec)

mysql> SELECT emp_no, emp_name
-> FROM employee
-> WHERE salary BETWEEN 2000 AND 5000;
+-----+-----+
| emp_no | emp_name |
+-----+-----+
| 1237   | Michael Brown |
| 2399   | Govind       |
| 4112   | Swathi       |
| 4599   | Dhanad       |
| 5744   | Hari dev     |
| 7899   | William Jane |
+-----+-----+
6 rows in set (0.00 sec)

mysql> SELECT emp_no, emp_name
-> FROM employee
-> WHERE salary BETWEEN 2000 AND 5000;
+-----+-----+
| emp_no | emp_name |
+-----+-----+
```

Question no 2 (7,8)

```
MySQL 8.0 Command Line Cli x + -
mysql> SELECT emp_no, emp_name, designation
-> FROM employee
-> WHERE designation LIKE 'Sales%';
+-----+-----+-----+
| emp_no | emp_name | designation |
+-----+-----+-----+
| 1235 | John Doe | Sales manager |
| 3451 | Dennis | sales representative |
| 3452 | Amogh | Sales manager |
| 4312 | Qasim | Sales representative |
+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> UPDATE employee
-> SET salary = 25000
-> WHERE designation = 'Typist';
Query OK, 4 rows affected (0.00 sec)
Rows matched: 4 Changed: 4 Warnings: 0

mysql> select *from employee;
+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_no | emp_name | doj | ph_no | dept_name | designation | salary | gender |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1234 | Sarala | 2020-01-02 | 9444123456 | Sales | HR | 70000.00 | F |
| 1235 | John Doe | 2022-01-15 | 1234567890 | Sales | Sales manager | 80000.00 | M |
| 1236 | Jane Smith | 2022-02-01 | 9876543210 | HR | HR | 65000.00 | F |
| 1237 | Michael Brown | 2022-03-20 | 5556667777 | Marketing | Receptionist | 2500.00 | M |
| 2399 | Govind | 2019-03-01 | 8346123423 | Accounts | Typist | 25000.00 | M |
| 2400 | Khurana | 2019-03-01 | 9448903423 | Accounts | CA | 14500.00 | M |
| 3451 | Dennis | 2019-11-01 | 8244125357 | Marketing | sales representative | 7000.00 | M |
| 3452 | Amogh | 2019-01-01 | 9464123456 | Sales | Sales manager | 72000.00 | M |
| 4112 | Swathi | 2019-04-23 | NULL | Sales | Typist | 25000.00 | F |
| 4312 | Qasim | 2019-04-01 | 9444123423 | Sales | Sales representative | 7000.00 | M |
| 4345 | Devi kumar | 2020-01-01 | 9448563456 | HR | HR | 70000.00 | F |
| 4599 | Dhanad | 2019-04-02 | 8456123423 | Accounts | Typist | 25000.00 | M |
| 4600 | Suraj | 2019-04-02 | 9426123423 | Accounts | CA | 46000.00 | M |
| 5744 | Hari dev | 2019-03-01 | 9464893456 | Marketing | Receptionist | 2000.00 | M |
| 6693 | Manoj | 2019-03-01 | 9444125357 | HR | Marketing | 17000.00 | M |
| 7899 | William Jane | 2019-04-12 | NULL | Marketing | Typist | 25000.00 | F |
```

Question no 2 (8)

```
MySQL 8.0 Command Line Cli  x  +  v

mysql> select *from employee;
+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_no | emp_name | doj | ph_no | dept_name | designation | salary | gender |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1234 | Sarala | 2020-01-02 | 9444123456 | Sales | HR | 70000.00 | F |
| 1235 | John Doe | 2022-01-15 | 1234567890 | Sales | Sales manager | 80000.00 | M |
| 1236 | Jane Smith | 2022-02-01 | 9876543210 | HR | HR | 65000.00 | F |
| 1237 | Michael Brown | 2022-03-20 | 5556667777 | Marketing | Receptionist | 2500.00 | M |
| 2399 | Govind | 2019-03-01 | 8346123423 | Accounts | Typist | 25000.00 | M |
| 2400 | Khurana | 2019-03-01 | 9448903423 | Accounts | CA | 14500.00 | M |
| 3451 | Dennis | 2019-11-01 | 8244125357 | Marketing | sales representative | 7000.00 | M |
| 3452 | Amogh | 2019-01-01 | 9464123456 | Sales | Sales manager | 72000.00 | M |
| 4112 | Swathi | 2019-04-23 | NULL | Sales | Typist | 25000.00 | F |
| 4312 | Qasim | 2019-04-01 | 9444123423 | Sales | Sales representative | 7000.00 | M |
| 4345 | Devi kumar | 2020-01-01 | 9448563456 | HR | HR | 70000.00 | F |
| 4599 | Dhanad | 2019-04-02 | 8456123423 | Accounts | Typist | 25000.00 | M |
| 4600 | Suraj | 2019-04-02 | 9426123423 | Accounts | CA | 46000.00 | M |
| 5744 | Hari dev | 2019-03-01 | 9464893456 | Marketing | Receptionist | 2000.00 | M |
| 6693 | Manoj | 2019-03-01 | 9444125357 | HR | Marketing | 17000.00 | M |
| 7899 | William Jane | 2019-04-12 | NULL | Marketing | Typist | 25000.00 | F |
+-----+-----+-----+-----+-----+-----+-----+-----+
16 rows in set (0.00 sec)

mysql> UPDATE employee
-> SET ph_no = 'new_mobile_number'
-> WHERE emp_name = 'John';
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0

mysql> select *from employee;
+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_no | emp_name | doj | ph_no | dept_name | designation | salary | gender |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1234 | Sarala | 2020-01-02 | 9444123456 | Sales | HR | 70000.00 | F |
| 1235 | John Doe | 2022-01-15 | 1234567890 | Sales | Sales manager | 80000.00 | M |
| 1236 | Jane Smith | 2022-02-01 | 9876543210 | HR | HR | 65000.00 | F |
| 1237 | Michael Brown | 2022-03-20 | 5556667777 | Marketing | Receptionist | 2500.00 | M |
| 2399 | Govind | 2019-03-01 | 8346123423 | Accounts | Typist | 25000.00 | M |
| 2400 | Khurana | 2019-03-01 | 9448903423 | Accounts | CA | 14500.00 | M |
```


Question no 2 (9)

```
MySQL 8.0 Command Line Cli x + v
+-----+-----+-----+-----+-----+-----+-----+
16 rows in set (0.00 sec)

mysql> UPDATE employee
-> SET ph_no = 'new_mobile_number'
-> WHERE emp_name = 'John';
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0

mysql> select *from employee;
+-----+-----+-----+-----+-----+-----+-----+
| emp_no | emp_name | doj | ph_no | dept_name | designation | salary | gender |
+-----+-----+-----+-----+-----+-----+-----+
| 1234 | Sarala | 2020-01-02 | 9444123456 | Sales | HR | 70000.00 | F |
| 1235 | John Doe | 2022-01-15 | 1234567890 | Sales | Sales manager | 80000.00 | M |
| 1236 | Jane Smith | 2022-02-01 | 9876543210 | HR | HR | 65000.00 | F |
| 1237 | Michael Brown | 2022-03-20 | 5556667777 | Marketing | Receptionist | 2500.00 | M |
| 2399 | Govind | 2019-03-01 | 8346123423 | Accounts | Typist | 25000.00 | M |
| 2400 | Khurana | 2019-03-01 | 9448903423 | Accounts | CA | 14500.00 | M |
| 3451 | Dennis | 2019-11-01 | 8244125357 | Marketing | sales representative | 7000.00 | M |
| 3452 | Amogh | 2019-01-01 | 9464123456 | Sales | Sales manager | 72000.00 | M |
| 4112 | Swathi | 2019-04-23 | NULL | Sales | Typist | 25000.00 | F |
| 4312 | Qasim | 2019-04-01 | 9444123423 | Sales | Sales representative | 7000.00 | M |
| 4345 | Devi kumar | 2020-01-01 | 9448563456 | HR | HR | 70000.00 | F |
| 4599 | Dhanad | 2019-04-02 | 8456123423 | Accounts | Typist | 25000.00 | M |
| 4600 | Suraj | 2019-04-02 | 9426123423 | Accounts | CA | 46000.00 | M |
| 5744 | Hari dev | 2019-03-01 | 9464893456 | Marketing | Receptionist | 2000.00 | M |
| 6693 | Manoj | 2019-03-01 | 9444125357 | HR | Marketing | 17000.00 | M |
| 7899 | William Jane | 2019-04-12 | NULL | Marketing | Typist | 25000.00 | F |
+-----+-----+-----+-----+-----+-----+-----+
16 rows in set (0.00 sec)

mysql> UPDATE employee
-> SET salary = salary * 1.15
-> WHERE designation = 'Receptionist';
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2 Changed: 2 Warnings: 0

mysql> select *from employee;
+-----+-----+-----+-----+-----+-----+-----+
| emp_no | emp_name | doj | ph_no | dept_name | designation | salary | gender |
+-----+-----+-----+-----+-----+-----+-----+
| 1234 | Sarala | 2020-01-02 | 9444123456 | Sales | HR | 70000.00 | F |
| 1235 | John Doe | 2022-01-15 | 1234567890 | Sales | Sales manager | 80000.00 | M |
| 1236 | Jane Smith | 2022-02-01 | 9876543210 | HR | HR | 65000.00 | F |
| 1237 | Michael Brown | 2022-03-20 | 5556667777 | Marketing | Receptionist | 2875.00 | M |
| 2399 | Govind | 2019-03-01 | 8346123423 | Accounts | Typist | 25000.00 | M |
| 2400 | Khurana | 2019-03-01 | 9448903423 | Accounts | CA | 14500.00 | M |
| 3451 | Dennis | 2019-11-01 | 8244125357 | Marketing | sales representative | 7000.00 | M |
| 3452 | Amogh | 2019-01-01 | 9464123456 | Sales | Sales manager | 72000.00 | M |
| 4112 | Swathi | 2019-04-23 | NULL | Sales | Typist | 25000.00 | F |
| 4312 | Qasim | 2019-04-01 | 9444123423 | Sales | Sales representative | 7000.00 | M |
| 4345 | Devi kumar | 2020-01-01 | 9448563456 | HR | HR | 70000.00 | F |
| 4599 | Dhanad | 2019-04-02 | 8456123423 | Accounts | Typist | 25000.00 | M |
| 4600 | Suraj | 2019-04-02 | 9426123423 | Accounts | CA | 46000.00 | M |
| 5744 | Hari dev | 2019-03-01 | 9464893456 | Marketing | Receptionist | 2300.00 | M |
| 6693 | Manoj | 2019-03-01 | 9444125357 | HR | Marketing | 17000.00 | M |
| 7899 | William Jane | 2019-04-12 | NULL | Marketing | Typist | 25000.00 | F |
+-----+-----+-----+-----+-----+-----+-----+
```


Question no 2 (10,11)

```
MySQL 8.0 Command Line Cli x + v

mysql> UPDATE employee
-> SET salary = salary * 1.15
-> WHERE designation = 'Receptionist';
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2 Changed: 2 Warnings: 0

mysql> select *from employee;
+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_no | emp_name | doj | ph_no | dept_name | designation | salary | gender |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1234 | Sarala | 2020-01-02 | 9444123456 | Sales | HR | 70000.00 | F |
| 1235 | John Doe | 2022-01-15 | 1234567890 | Sales | Sales manager | 80000.00 | M |
| 1236 | Jane Smith | 2022-02-01 | 9876543210 | HR | HR | 65000.00 | F |
| 1237 | Michael Brown | 2022-03-20 | 5556667777 | Marketing | Receptionist | 2875.00 | M |
| 2399 | Govind | 2019-03-01 | 8346123423 | Accounts | Typist | 25000.00 | M |
| 2400 | Khurana | 2019-03-01 | 9448903423 | Accounts | CA | 14500.00 | M |
| 3451 | Dennis | 2019-11-01 | 8244125357 | Marketing | sales representative | 7000.00 | M |
| 3452 | Amogh | 2019-01-01 | 9464123456 | Sales | Sales manager | 72000.00 | M |
| 4112 | Swathi | 2019-04-23 | NULL | Sales | Typist | 25000.00 | F |
| 4312 | Qasim | 2019-04-01 | 9444123423 | Sales | Sales representative | 7000.00 | M |
| 4345 | Devi kumar | 2020-01-01 | 9448563456 | HR | HR | 70000.00 | F |
| 4599 | Dhanad | 2019-04-02 | 8456123423 | Accounts | Typist | 25000.00 | M |
| 4600 | Suraj | 2019-04-02 | 9426123423 | Accounts | CA | 46000.00 | M |
| 5744 | Hari dev | 2019-03-01 | 9464893456 | Marketing | Receptionist | 2300.00 | M |
| 6693 | Manoj | 2019-03-01 | 9444125357 | HR | Marketing | 17000.00 | M |
| 7899 | William Jane | 2019-04-12 | NULL | Marketing | Typist | 25000.00 | F |
+-----+-----+-----+-----+-----+-----+-----+-----+
16 rows in set (0.00 sec)

mysql> SELECT emp_no, emp_name
-> FROM employee
-> WHERE ph_no IS NULL OR ph_no = '';
+-----+-----+
| emp_no | emp_name |
+-----+-----+
| 4112 | Swathi |
| 7899 | William Jane |
+-----+-----+
2 rows in set (0.00 sec)
```

Question no 2 (11,12)

```
MySQL 8.0 Command Line Cli x + v

mysql> SELECT emp_no, emp_name
-> FROM employee
-> WHERE ph_no IS NULL OR ph_no = '';
+-----+-----+
| emp_no | emp_name |
+-----+-----+
| 4112 | Swathi |
| 7899 | William Jane |
+-----+-----+
2 rows in set (0.00 sec)

mysql> DELETE FROM employee
-> WHERE salary > 7000;
Query OK, 12 rows affected (0.00 sec)

mysql> select *from employee;
+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_no | emp_name | doj | ph_no | dept_name | designation | salary | gender |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1237 | Michael Brown | 2022-03-20 | 5556667777 | Marketing | Receptionist | 2875.00 | M |
| 3451 | Dennis | 2019-11-01 | 8244125357 | Marketing | sales representative | 7000.00 | M |
| 4312 | Qasim | 2019-04-01 | 9444123423 | Sales | Sales representative | 7000.00 | M |
| 5744 | Hari dev | 2019-03-01 | 9464893456 | Marketing | Receptionist | 2300.00 | M |
+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> TRUNCATE TABLE employee;
Query OK, 0 rows affected (0.02 sec)

mysql> select *from employee;
Empty set (0.00 sec)

mysql> DESCRIBE employee; -- or SHOW COLUMNS FROM employee;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| emp_no | int | NO | PRI | NULL | |
| emp_name | varchar(255) | YES | | NULL | |
| doj | date | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
```

Question no 2 (13,14)

```
MySQL 8.0 Command Line Cli x + v

mysql> select *from employee;
+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_no | emp_name | doj | ph_no | dept_name | designation | salary | gender |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1237 | Michael Brown | 2022-03-20 | 5556667777 | Marketing | Receptionist | 2875.00 | M |
| 3451 | Dennis | 2019-11-01 | 8244125357 | Marketing | sales representative | 7000.00 | M |
| 4312 | Qasim | 2019-04-01 | 9444123423 | Sales | Sales representative | 7000.00 | M |
| 5744 | Hari dev | 2019-03-01 | 9464893456 | Marketing | Receptionist | 2300.00 | M |
+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> TRUNCATE TABLE employee;
Query OK, 0 rows affected (0.02 sec)

mysql> select *from employee;
Empty set (0.00 sec)

mysql> DESCRIBE employee; -- or SHOW COLUMNS FROM employee;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| emp_no | int | NO | PRI | NULL | |
| emp_name | varchar(255) | YES | | NULL | |
| doj | date | YES | | NULL | |
| ph_no | varchar(15) | YES | | NULL | |
| dept_name | varchar(50) | YES | | NULL | |
| designation | varchar(50) | YES | | NULL | |
| salary | decimal(10,2) | YES | | NULL | |
| gender | char(1) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql>
```