

DATABASE MANAGEMENT AND QUERY PROCESSING

Query 01 : Create a table employee with the following schema :

e_no --- int(2), e_name --- varchar, e_address --- varchar, e_ph_no --- int(6),
e_email --- varchar, dep_no --- varchar, dep_name --- varchar, job_id --- varchar, salary ---int(6)

```
MariaDB [21co56]> CREATE TABLE employee
-> (
->     e_no int(2),
->     e_name varchar(20),
->     e_address varchar(20),
->     e_ph_no int(6),
->     e_email varchar(20),
->     dep_no varchar(20),
->     dep_name varchar(20),
->     job_id varchar(20),
->     salary int(6)
-> );
Query OK, 0 rows affected (0.017 sec)
```

```
MariaDB [21co56]> DESC employee;
```

Field	Type	Null	Key	Default	Extra
e_no	int(2)	YES		NULL	
e_name	varchar(20)	YES		NULL	
e_address	varchar(20)	YES		NULL	
e_ph_no	int(6)	YES		NULL	
e_email	varchar(20)	YES		NULL	
dep_no	varchar(20)	YES		NULL	
dep_name	varchar(20)	YES		NULL	
job_id	varchar(20)	YES		NULL	
salary	int(6)	YES		NULL	

9 rows in set (0.024 sec)

Query 02 : Insert at least 10 rows in table, 3 entries using single record, 3 entries using specific columns and 4 entries using multiple rows....

```
MariaDB [21co56]> INSERT INTO employee
-> VALUES (1, "Haysten D'costa", "01aulim", 999999, "haystend@gmail.com", "10", "D10", 1, 10000);
Query OK, 1 row affected (0.063 sec)

MariaDB [21co56]> INSERT INTO employee
-> VALUES (2, "Sahil Halankar", "Alorna", 888888, "sahil@gmail.com", "12", "SALES", 2, 20000);
Query OK, 1 row affected (0.010 sec)

MariaDB [21co56]> INSERT INTO employee
-> VALUES (3, "Shivam Mandrekar", "Mapusa", 777777, "shivam@gmail.com", "11", "COMP", 3, 5000);
Query OK, 1 row affected (0.010 sec)

MariaDB [21co56]> INSERT INTO employee(e_no, e_name, e_address, e_ph_no, e_email, dep_no, dep_name, job_id, salary)
-> VALUES (4, "Siya Redkar", "Nagpur", 666666, "siya@gmail.com", "D14", "MECH", 4, 25000);
Query OK, 1 row affected (0.010 sec)

MariaDB [21co56]> INSERT INTO employee(e_no, e_name, e_address, e_ph_no, e_email, dep_no, dep_name, job_id, salary)
-> VALUES (5, "Shubham Mandrekar", "Asagao", 555555, "shubham@gmail.com", "D15", "SALES", 5, 4000);
Query OK, 1 row affected (0.009 sec)

MariaDB [21co56]> INSERT INTO employee(e_no, e_name, e_address, e_ph_no, e_email, dep_no, dep_name, job_id, salary)
-> VALUES (6, "Shruti Patil", "Porvorim", 444444, "shruti@gmail.com", "D10", "COMP", 13, 2000);
Query OK, 1 row affected (0.009 sec)

MariaDB [21co56]> INSERT INTO employee VALUES
-> (7, "Ram Naik", "Pomburpa", 333333, "ram@gmail.com", "D40", "ECE", 10, 1110),
-> (8, "Tim D'costa", "Quitla", 222222, "tim@gmail.com", "D22", "ECE", 20, 55000),
-> (9, "Roy Fernandes", "Mapusa", 111111, "roy@gmail.com", "D40", "MECH", 25, 10000),
-> (10, "Harsh Pilankar", "Assagao", 999876, "harsh@gmail.com", "D5", "SALES", 9, 9000);
Query OK, 4 rows affected (0.010 sec)
Records: 4 Duplicates: 0 Warnings: 0
```

DATABASE MANAGEMENT AND QUERY PROCESSING

Query 03 : Display all the information of employee table...

```
MariaDB [21co56]> SELECT * FROM employee;
```

e_no	e_name	e_address	e_ph_no	e_email	dep_no	dep_name	job_id	salary
1	Haysten D'costa	Olaulim	999999	haystend@gmail.com	D10	COMP	1	10000
2	Sahil Halankar	Alorna	888888	sahil@gmail.com	D15	SALES	2	20000
3	Shivam Mandrekar	Mapusa	777777	shivam@gmail.com	D10	COMP	3	5000
4	Siya Redkar	Nagpur	666666	siya@gmail.com	D12	MECH	4	25000
5	Shubham Mandrekar	Asagao	555555	shubham@gmail.com	D15	SALES	5	4000
6	Shruti Patil	Porvorim	444444	shruti@gmail.com	D10	COMP	13	2000
7	Ram Naik	Pomburpa	333333	ram@gmail.com	D22	ECE	10	1110
8	Tim D'costa	Quitla	222222	tim@gmail.com	D22	ECE	20	55000
9	Roy Fernandes	Mapusa	111111	roy@gmail.com	D12	MECH	25	10000
10	Harsh Pilankar	Assagao	999876	harsh@gmail.com	D15	SALES	9	9000

10 rows in set (0.001 sec)

Query 04 : Display the record of each employee who works in department D15...

```
MariaDB [21co56]> SELECT * FROM employee WHERE dep_no="D15";
```

e_no	e_name	e_address	e_ph_no	e_email	dep_no	dep_name	job_id	salary
2	Sahil Halankar	Alorna	888888	sahil@gmail.com	D15	SALES	2	20000
5	Shubham Mandrekar	Asagao	555555	shubham@gmail.com	D15	SALES	5	4000
10	Harsh Pilankar	Assagao	999876	harsh@gmail.com	D15	SALES	9	9000

3 rows in set (0.001 sec)

Query 05 : Update the address of employee with employee id as 6, as ponda...

```
MariaDB [21co56]> UPDATE employee
-> SET e_address="Ponda" WHERE e_no=6;
Query OK, 1 row affected (0.010 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [21co56]> SELECT * FROM employee;
```

e_no	e_name	e_address	e_ph_no	e_email	dep_no	dep_name	job_id	salary
1	Haysten D'costa	Olaulim	999999	haystend@gmail.com	D10	COMP	1	10000
2	Sahil Halankar	Alorna	888888	sahil@gmail.com	D15	SALES	2	20000
3	Shivam Mandrekar	Mapusa	777777	shivam@gmail.com	D10	COMP	3	5000
4	Siya Redkar	Nagpur	666666	siya@gmail.com	D12	MECH	4	25000
5	Shubham Mandrekar	Asagao	555555	shubham@gmail.com	D15	SALES	5	4000
6	Shruti Patil	Ponda	444444	shruti@gmail.com	D10	COMP	13	2000
7	Ram Naik	Pomburpa	333333	ram@gmail.com	D22	ECE	10	1110
8	Tim D'costa	Quitla	222222	tim@gmail.com	D22	ECE	20	55000
9	Roy Fernandes	Mapusa	111111	roy@gmail.com	D12	MECH	25	10000
10	Harsh Pilankar	Assagao	999876	harsh@gmail.com	D15	SALES	9	9000

10 rows in set (0.001 sec)

Query 06 : Display the details of employee who works in department MECH...

```
MariaDB [21co56]> SELECT * FROM employee WHERE dep_name="MECH";
```

e_no	e_name	e_address	e_ph_no	e_email	dep_no	dep_name	job_id	salary
4	Siya Redkar	Nagpur	666666	siya@gmail.com	D12	MECH	4	25000
9	Roy Fernandes	Mapusa	111111	roy@gmail.com	D12	MECH	25	10000

2 rows in set (0.001 sec)

DATABASE MANAGEMENT AND QUERY PROCESSING

Query 07 : Delete the email id of employee Ram Naik (Using update command)...

```
MariaDB [21co56]> UPDATE employee
-> SET e_email=NULL WHERE e_name="Ram Naik";
Query OK, 1 row affected (0.010 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [21co56]> SELECT * FROM employee;
```

e_no	e_name	e_address	e_ph_no	e_email	dep_no	dep_name	job_id	salary
1	Haysten D'costa	Olaulim	999999	haystend@gmail.com	D10	COMP	1	10000
2	Sahil Halankar	Alorna	888888	sahil@gmail.com	D15	SALES	2	20000
3	Shivam Mandrekar	Mapusa	777777	shivam@gmail.com	D10	COMP	3	5000
4	Siya Redkar	Nagpur	666666	siya@gmail.com	D12	MECH	4	25000
5	Shubham Mandrekar	Assagio	555555	shubham@gmail.com	D15	SALES	5	4000
6	Shruti Patil	Ponda	444444	shruti@gmail.com	D10	COMP	13	2000
7	Ram Naik	Pomburpa	333333	NULL	D22	ECE	10	1110
8	Tim D'costa	Quitla	222222	tim@gmail.com	D22	ECE	20	55000
9	Roy Fernandes	Mapusa	111111	roy@gmail.com	D12	MECH	25	10000
10	Harsh Pilankar	Assagio	999876	harsh@gmail.com	D15	SALES	9	9000

10 rows in set (0.001 sec)

Query 08 : Display the complete record of employees working in COMP Department...

```
MariaDB [21co56]> SELECT * FROM employee WHERE dep_name="COMP";
```

e_no	e_name	e_address	e_ph_no	e_email	dep_no	dep_name	job_id	salary
1	Haysten D'costa	Olaulim	999999	haystend@gmail.com	D10	COMP	1	10000
3	Shivam Mandrekar	Mapusa	777777	shivam@gmail.com	D10	COMP	3	5000
6	Shruti Patil	Ponda	444444	shruti@gmail.com	D10	COMP	13	2000

3 rows in set (0.001 sec)

Query 09 : Display the details of employee who works in department SALES and studying in Assagio...

```
MariaDB [21co56]> SELECT * FROM employee WHERE dep_name="SALES" and e_address="Assagio";
```

e_no	e_name	e_address	e_ph_no	e_email	dep_no	dep_name	job_id	salary
10	Harsh Pilankar	Assagio	999876	harsh@gmail.com	D15	SALES	9	9000

1 row in set (0.001 sec)

Query 10 : Display the employee details having salary between 10000 and 15000...

```
MariaDB [21co56]> SELECT * FROM employee WHERE (salary>10000 and salary<30000);
```

e_no	e_name	e_address	e_ph_no	e_email	dep_no	dep_name	job_id	salary
2	Sahil Halankar	Alorna	888888	sahil@gmail.com	D15	SALES	2	20000
4	Siya Redkar	Nagpur	666666	siya@gmail.com	D12	MECH	4	25000

2 rows in set (0.001 sec)

DATABASE MANAGEMENT AND QUERY PROCESSING

Query 11 : Delete the employee having salary less than 10000...

```
MariaDB [21co56]> DELETE FROM employee WHERE salary<10000;  
Query OK, 5 rows affected (0.010 sec)
```

```
MariaDB [21co56]> SELECT * FROM employee;
```

e_no	e_name	e_address	e_ph_no	e_email	dep_no	dep_name	job_id	salary
1	Haysten D'costa	Olaulim	999999	haystend@gmail.com	D10	COMP	1	10000
2	Sahil Halankar	Alorna	888888	sahil@gmail.com	D15	SALES	2	20000
4	Siya Redkar	Nagpur	666666	siya@gmail.com	D12	MECH	4	25000
8	Tim D'costa	Quitla	222222	tim@gmail.com	D22	ECE	20	55000
9	Roy Fernandes	Mapusa	111111	roy@gmail.com	D12	MECH	25	10000

```
5 rows in set (0.001 sec)
```