

## Third Year B. Tech (EL & CE)

**Semester: V**

**Subject: Data Base Management System**

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**Class: TY**

**Roll No: 52**

**Batch: A3**

### Experiment No: 04

**Name of the Experiment: SQL DML Statements**

**Performed on: 13/09/2023**

**Submitted on: 27/09/2023**

#### Problem Statement:

(INSERT, UPDATE, DELETE and SELECT QUERY) on Company Database)

Code:

```
MySQL 8.0 Command Line Client - Unicode
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 17
Server version: 8.0.34 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sakila |
| sys |
| world |
+-----+
6 rows in set (0.00 sec)

mysql> CREATE DATABASE Company;
Query OK, 1 row affected (0.00 sec)

mysql> USE Company;
Database changed
mysql> CREATE TABLE Employ(employ_id int(20), name varchar(40), salary int(10), address varchar(70), contact_number int(10), primary key(employ_id));
Query OK, 0 rows affected, 3 warnings (0.01 sec)

mysql> CREATE TABLE Project(Project_id int(10), Project_name varchar(10), dept char(10), primary key(Project_id));
Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql> SHOW TABLES;
+-----+
| Tables_in_company |
+-----+
| employ |
| project |
+-----+
2 rows in set (0.00 sec)

mysql> DESC employ;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| employ_id | int(20) | NO | PRIMARY |  |  |
| name | varchar(40) | YES |  |  |  |
| salary | int(10) | YES |  |  |  |
| address | varchar(70) | YES |  |  |  |
| contact_number | int(10) | YES |  |  |  |
+-----+
```

```
MySQL 8.0 Command Line Client - Unicode
project
2 rows in set (0.00 sec)

mysql> DESC employ;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| employ_id | int | NO | PRI | NULL |  |
| name | varchar(40) | YES |  | NULL |  |
| salary | int | YES |  | NULL |  |
| address | varchar(70) | YES |  | NULL |  |
| contact_number | int | YES |  | NULL |  |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> ALTER TABLE DROP contact_number;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'DROP contact_number' at line 1
mysql> ALTER TABLE employ DROP contact_number;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> DESC employ;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| employ_id | int | NO | PRI | NULL |  |
| name | varchar(40) | YES |  | NULL |  |
| salary | int | YES |  | NULL |  |
| address | varchar(70) | YES |  | NULL |  |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> ALTER TABLE employ ADD contact_number double;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> DESC employ;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| employ_id | int | NO | PRI | NULL |  |
| name | varchar(40) | YES |  | NULL |  |
| salary | int | YES |  | NULL |  |
| address | varchar(70) | YES |  | NULL |  |
| contact_number | double | YES |  | NULL |  |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
MySQL 8.0 Command Line Client - Unicode
+-----+-----+-----+-----+-----+-----+
| address | varchar(70) | YES |  | NULL |  |
| contact_number | double | YES |  | NULL |  |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> INSERT INTO employ VALUES(52, "SHREERANG MHATRE", 3000000, "302,SHILPA SOCIETY,KOTHRUD", 9186731408);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO employ VALUES(63, "SARVESH PAWAR", 1000000, "103, YAHSAHRISOCIETY, BANER", 8632149866);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO employ VALUES(15, "LOKESH JAIN", 2000000, "307, PALAWA, KOREGAON PARK", 9483163245);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO employ VALUES(15, "LOKESH JAIN", 2000000, "101, VORTEX COMPLE SADASHIV PETH", 7788996345);
ERROR 1062 (23000): Duplicate entry '15' for key 'employ.PRIMARY'
mysql> INSERT INTO employ VALUES(25, "SHUBNAM GILL", 2700000, "101 VORTEXCOMPLEX, SADASHIV PETH", 7788996345);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO employ VALUES(29, "SAKSHI LAD", 2400000, "401, RAMSADAN HEIGHTS", 8673102195);
Query OK, 1 row affected (0.00 sec)

mysql> SELECT * FROM employ;
+-----+-----+-----+-----+-----+-----+
| employ_id | name | salary | address | contact_number |
+-----+-----+-----+-----+-----+-----+
| 15 | LOKESH JAIN | 2000000 | 307, PALAWA, KOREGAON PARK | 9483163245 |
| 25 | SHUBNAM GILL | 2700000 | 101 VORTEXCOMPLEX, SADASHIV PETH | 7788996345 |
| 29 | SAKSHI LAD | 2400000 | 401, RAMSADAN HEIGHTS | 8673102195 |
| 52 | SHREERANG MHATRE | 3000000 | 302,SHILPA SOCIETY,KOTHRUD | 9186731408 |
| 63 | SARVESH PAWAR | 1000000 | 103, YAHSAHRISOCIETY, BANER | 8632149866 |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> DELETE FROM employ WHERE name = "SHREERANG MHATRE";
Query OK, 1 row affected (0.00 sec)

mysql> SELECT * FROM employ;
+-----+-----+-----+-----+-----+-----+
| employ_id | name | salary | address | contact_number |
+-----+-----+-----+-----+-----+-----+
| 15 | LOKESH JAIN | 2000000 | 307, PALAWA, KOREGAON PARK | 9483163245 |
| 25 | SHUBNAM GILL | 2700000 | 101 VORTEXCOMPLEX, SADASHIV PETH | 7788996345 |
| 29 | SAKSHI LAD | 2400000 | 401, RAMSADAN HEIGHTS | 8673102195 |
| 63 | SARVESH PAWAR | 1000000 | 103, YAHSAHRISOCIETY, BANER | 8632149866 |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> UPDATE employ SET salary = salary*0.03 WHERE salary >2000000;
Query OK, 2 rows affected (0.00 sec)
```

```
MySQL 8.0 Command Line Client - Unicode
mysql> SELECT * FROM employ;
+-----+-----+-----+-----+-----+
| employ_id | name          | salary | address                                     | contact_number |
+-----+-----+-----+-----+-----+
| 15        | LOKESH JAIN   | 2000000 | 307, PALAWA, KOREGAON PARK                | 9483163245     |
| 25        | SHUBNAM GILL  | 2700000 | 101 VORTEXCOMPLEX, SADASHIV PETH          | 7788996345     |
| 29        | SAKSHI LAD    | 2400000 | 401, RAMSADAN HEIGHTS                     | 8673102195     |
| 63        | SARVESH PAWAR | 1000000 | 103, YAHSAASHRISOCIETY, BANER             | 8632149866     |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> UPDATE employ SET salary = salary*0.03 WHERE salary >2000000;
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2  Changed: 2  Warnings: 0

mysql> SELECT * FROM employ;
+-----+-----+-----+-----+-----+
| employ_id | name          | salary | address                                     | contact_number |
+-----+-----+-----+-----+-----+
| 15        | LOKESH JAIN   | 2000000 | 307, PALAWA, KOREGAON PARK                | 9483163245     |
| 25        | SHUBNAM GILL  | 81000   | 101 VORTEXCOMPLEX, SADASHIV PETH          | 7788996345     |
| 29        | SAKSHI LAD    | 72000   | 401, RAMSADAN HEIGHTS                     | 8673102195     |
| 63        | SARVESH PAWAR | 1000000 | 103, YAHSAASHRISOCIETY, BANER             | 8632149866     |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> SELECT employ_id, name, salary/10 FROM employ;
+-----+-----+-----+
| employ_id | name          | salary/10 |
+-----+-----+-----+
| 15        | LOKESH JAIN   | 200000.0000 |
| 25        | SHUBNAM GILL  | 8100.0000  |
| 29        | SAKSHI LAD    | 7200.0000  |
| 63        | SARVESH PAWAR | 100000.0000 |
+-----+-----+-----+
4 rows in set (0.00 sec)

mysql>
mysql>
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mysql>
mysql>
mysql>
```

## Post Lab Questions:

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## SQL DML statements

Insert, update, delete & select query on company Database.

⇒ desc employ;

field	Type	NULL	key	Default	Extra
id	int	NO			
name	varchar(40)	yes	PR I		NULL
salary	int	yes			NULL
address	varchar(70)	yes			NULL
contact	double	yes			NULL

insert into instructor values (attributes values);

insert into employ values (52, "Shravanang Mahatre", 30,00,000, "302, Shilpa Society, Kothrud", 9186731408);

insert into employ values (63, "Suresh Pawar", 10,00,000, "103, Yashashri Society, Baner", 8632149866);

insert into employ values (15, "Lokesh Jain", 20,00,000, "307, Palawa, Koregaon Park", 9483163245);



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insert into employ values (25, "Shubham gill", 27,00,000, "101, Vortex complex Sadashiv Peth", 7788996345);

insert into employ values (69, "Sakshi lad", 24,00,000, "401, Ram Sadan Heights", 8673410219);

• Select \* from table-name;

select \* from employ;

id	name	salary	address	contact
52	Shreeerang Mhatre	33,00,000	302, Shilpa Society, Kothrud	9186731402
63	Garvesh Pawar	10,00,000	103, Kashashri Society, Banor	8632149850
15	Lokesh Jain	20,00,000	307, Palawa, Koregaon Park	9483163245
25	Shubham gill	27,00,000	101, Vortex complex Sadashiv Peth	7788996345
69	Sakshi lad	24,00,000	401, Ram Sadan Heights	8673410219

• delete from table-name where attribute = "value";

delete from employ where name = "Shreeerang Mhatre";

Select \* from employ;

id	name	salary	address	contact
63	Sanvesh Pawar	- // -	- // -	
15	Lokesh Jain	- // -	- // -	
25	Shubhnam Gill	- // -	- // -	
69	Sakshi Lad	- // -	- // -	

- Update table\_name set attribute  
= attribute \* n where  
attribute > 20;

Update employ set salary = salary \* 0.03  
where salary > 50,00,000;

Rows matched: 3 changed 3 warnings: 0

Select \* from employ;

id	name	salary	address	contact
63	Sanvesh Pawar	3,00,000		
15	Lokesh Jain	6,00,000		
25	Shubhnam Gill	9,00,000		
69	<del>Lokesh</del> Sakshi Lad	8,00,000		



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• Select attribute 1, attribute 2 from table

select id, name, salary from employ

id	name	salary
63	Garvesh Pawar	3,00,000
15	Lokesh Jain	6,00,000
25	Shubnam Gill	9,00,000
69	Sakshi Lad	8,00,000

97/9/23