

Zeal College of Engineering and Research

Subject: DBMSL

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Class: TE

Div: B

Batch: B1

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Group A: Practical No: 2

Program Statement:

SQL Queries:

- a. Design and Develop SQL DDL statements which demonstrate the use of SQL objects such as Table, View, Index, Sequence, Synonym, different constraints etc.
- b. Write at least 10 SQL queries on the suitable database application using SQL DML statements.

Code:

```
mysql> CREATE DATABASE shops;
```

Query OK, 1 row affected (0.00 sec)

```
mysql> USE shops;
```

Database changed

```
mysql> CREATE TABLE employees (employee_id INT AUTO_INCREMENT PRIMARY KEY, first_name VARCHAR(50) NOT NULL, last_name VARCHAR(50) NOT NULL, email VARCHAR(100) NOT NULL UNIQUE);
```

Query OK, 0 rows affected (0.03 sec)

```
mysql> CREATE TABLE customers (customer_id INT AUTO_INCREMENT PRIMARY KEY, first_name VARCHAR(50) NOT NULL, last_name VARCHAR(50) NOT NULL, email VARCHAR(100) NOT NULL UNIQUE);
```

Query OK, 0 rows affected (0.02 sec)

```
mysql>INSERT INTO employees (first_name, last_name, email)
```

```
-> VALUES ('Jenil', 'Rathod', 'rjenil@gmail.com');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO customers (first_name, last_name, email)
```

```
-> VALUES ('Zaid', 'Kharadi', 'kharadiz@gmail.com');
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> CREATE VIEW employee_basic_info AS SELECT employee_id, first_name,  
last_name, email FROM employees;
```

```
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> SELECT * FROM employee_basic_info;
```

employee_id	first_name	last_name	email
1	Jenil	Rathod	rjenil@gmail.com

```
1 row in set (0.00 sec)
```

```
mysql> SELECT c.first_name AS customer_name, e.first_name AS employee_name,  
e.email AS employee_contact FROM customers c JOIN employees e ON c.customer_id =  
e.employee_id WHERE c.customer_id = 1;
```

customer_name	employee_name	employee_contact
Zaid	Jenil	rjenil@gmail.com

```
1 row in set (0.00 sec)
```

```
mysql> UPDATE employees SET email = 'rathodjenil@gmail.com' WHERE employee_id  
= 1;
```

```
Query OK, 1 row affected (0.00 sec)
```

```
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> SELECT * FROM employees;
```

employee_id	first_name	last_name	email
1	Jenil	Rathod	rathodjenil@gmail.com

1 row in set (0.00 sec)

```
mysql> delete from employees where employee_id = 1;
```

Query OK, 1 row affected (0.00 sec)

```
mysql> SELECT * FROM employee_basic_info;
```

Empty set (0.00 sec)

```
mysql> SELECT first_name, last_name, email FROM customers WHERE email LIKE '%@gmail.com';
```

first_name	last_name	email
Zaid	Kharadi	kharadiz@gmail.com

1 row in set (0.00 sec)

```
mysql> UPDATE customers SET last_name = 'Merchant' WHERE customer_id = 1;
```

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> SELECT * FROM customers;
```

customer_id	first_name	last_name	email
1	Zaid	Merchant	kharadiz@gmail.com

1 row in set (0.00 sec)

```
mysql> INSERT INTO employees (first_name, last_name, email)
-> VALUES
-> ('Tanisha', 'Sharma', 'tanisha.sharma@gmail.com'),
-> ('Sudeep', 'Gupta', 'sudeep.gupta@gmail.com'),
-> ('Manas', 'Singh', 'manas.singh@gmail.com'),
-> ('Rohit', 'Verma', 'rohit.verma@gmail.com'),
-> ('Sangita', 'Patel', 'sangita.patel@gmail.com');
```

Query OK, 5 rows affected (0.00 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
mysql> SELECT first_name, last_name, email FROM employees;
```

```
+-----+-----+-----+
| first_name | last_name | email                |
+-----+-----+-----+
| Tanisha   | Sharma    | tanisha.sharma@gmail.com |
| Sudeep    | Gupta     | sudeep.gupta@gmail.com   |
| Manas     | Singh     | manas.singh@gmail.com    |
| Rohit     | Verma     | rohit.verma@gmail.com    |
| Sangita   | Patel     | sangita.patel@gmail.com  |
+-----+-----+-----+
```

5 rows in set (0.00 sec)