Title:- SQL Queries: a. Design and Develop SQLDDL 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. c. Note: Instructor will design the queries which demonstrate the use of concepts like Insert, Select, Update, Delete with operators, functions, and set operator etc.

Enter password: ***********

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 12

Server version: 8.0.30 MySQL Community Server - GPL

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

mysql> show databases;

+--------------------+

| Database |

+--------------------+

| abhi |

| information_schema |

| mysql |

| performance_schema |

| person1 |

| sys |

+--------------------+

6 rows in set (0.00 sec)

mysql> use person1;

Database changed

mysql> create table employee(id int, name varchar(100),position varchar(45),address varchar(88),salary int);

Query OK, 0 rows affected (0.24 sec)

mysql> insert into employee

   -> values(101,'Shyam','Associate','Mumbai',41600);

Query OK, 1 row affected (0.05 sec)

mysql> select*from employee;

```
+------+-------+-----------+---------+--------+
| id   | name  | position  | address | salary |
+------+-------+-----------+---------+--------+
|  101 | Shyam | Associate | Mumbai  |  41600 |
+------+-------+-----------+---------+--------+
```

1 row in set (0.00 sec)

mysql> insert into employee

   -> values(102,'Sravan','Manager','Hydrabad',60000);

Query OK, 1 row affected (0.08 sec)

mysql> insert into employee

   -> values(103,'Ashish','Trainee','Nashik',25000);

Query OK, 1 row affected (0.20 sec)

mysql> insert into employee

   -> values(104,'Jai','Sr. Associate','Mumbai',35000);

Query OK, 1 row affected (0.13 sec)

mysql> insert into employee

```
    -> values(105,'Abhisheh','Sr. Manager','Pune',75000);
Query OK, 1 row affected (0.18 sec)


mysql> select*from employee;

+------+----------+--------------+----------+--------+
| id   | name     | position     | address  | salary |
+------+----------+--------------+----------+--------+
|  101 | Shyam    | Associate    | Mumbai   |  41600 |
|  102 | Sravan   | Manager      | Hydrabad |  60000 |
|  103 | Ashish   | Trainee      | Nashik   |  25000 |
|  104 | Jai      | Sr. Associate | Mumbai   |  35000 |
|  105 | Abhisheh | Sr. Manager  | Pune     |  75000 |
+------+----------+--------------+----------+--------+
5 rows in set (0.00 sec)


mysql> select id from employee;

+------+
| id   |
+------+
|  101 |
|  102 |
|  103 |
|  104 |
|  105 |
+------+
5 rows in set (0.00 sec)


mysql> select id from employee where id=104;

+------+
| id   |
+------+
```

```
|  104 |

+------+

1 row in set (0.00 sec)


mysql> select*from employee where id=104;

+------+------+--------------+---------+--------+

| id   | name | position     | address | salary |

+------+------+--------------+---------+--------+

|  104 | Jai  | Sr. Associate | Mumbai  |  35000 |

+------+------+--------------+---------+--------+

1 row in set (0.00 sec)


mysql> delete from employee where id=105;

Query OK, 1 row affected (0.08 sec)


mysql> select*from employee;

+------+--------+--------------+----------+--------+

| id   | name   | position     | address  | salary |

+------+--------+--------------+----------+--------+

|  101 | Shyam  | Associate    | Mumbai   |  41600 |

|  102 | Sravan | Manager      | Hydrabad |  60000 |

|  103 | Ashish | Trainee      | Nashik   |  25000 |

|  104 | Jai    | Sr. Associate | Mumbai  |  35000 |

+------+--------+--------------+----------+--------+

4 rows in set (0.00 sec)


mysql> update employee

    -> set salary=40000

    -> where id=101;

Query OK, 1 row affected (0.26 sec)

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

mysql> select*from employee;

```
+------+--------+--------------+----------+--------+
| id   | name   | position     | address  | salary |
+------+--------+--------------+----------+--------+
|  101 | Shyam  | Associate    | Mumbai   |  40000 |
|  102 | Sravan | Manager      | Hydrabad |  60000 |
|  103 | Ashish | Trainee      | Nashik   |  25000 |
|  104 | Jai    | Sr. Associate| Mumbai   |  35000 |
+------+--------+--------------+----------+--------+
```

4 rows in set (0.00 sec)

mysql> alter table employee

    -> add joiningDate date;

Query OK, 0 rows affected (0.08 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select*from employee;

```
+------+--------+--------------+----------+--------+-------------+
| id   | name   | position     | address  | salary | joiningDate |
+------+--------+--------------+----------+--------+-------------+
|  101 | Shyam  | Associate    | Mumbai   |  40000 | NULL        |
|  102 | Sravan | Manager      | Hydrabad |  60000 | NULL        |
|  103 | Ashish | Trainee      | Nashik   |  25000 | NULL        |
|  104 | Jai    | Sr. Associate| Mumbai   |  35000 | NULL        |
+------+--------+--------------+----------+--------+-------------+
```

4 rows in set (0.00 sec)

mysql> use person1;

Database changed

mysql> select*from employee;

```
+------+--------+--------------+----------+--------+-------------+
| id   | name   | position     | address  | salary | joiningDate |
+------+--------+--------------+----------+--------+-------------+
| 101  | Shyam  | Associate    | Mumbai   |  40000 | NULL        |
| 102  | Sravan | Manager      | Hydrabad |  60000 | NULL        |
| 103  | Ashish | Trainee      | Nashik   |  25000 | NULL        |
| 104  | Jai    | Sr. Associate| Mumbai   |  35000 | NULL        |
+------+--------+--------------+----------+--------+-------------+
4 rows in set (0.00 sec)

mysql> update employee set joiningDate='2015-01-01' where id=101;
Query OK, 1 row affected (0.15 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update employee set joiningDate='2014-03-01' where id=102;
Query OK, 1 row affected (0.07 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update employee set joiningDate='2014-08-05' where id=104;
Query OK, 1 row affected (0.15 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update employee set joiningDate='2019-04-01' where id=103;
Query OK, 1 row affected (0.11 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select*from employee;
+------+--------+--------------+----------+--------+-------------+
| id   | name   | position     | address  | salary | joiningDate |
+------+--------+--------------+----------+--------+-------------+
| 101  | Shyam  | Associate    | Mumbai   |  40000 | 2015-01-01  |
```

```
| 102 | Sravan | Manager      | Hydrabad |  60000 | 2014-03-01 |
| 103 | Ashish | Trainee      | Nashik   |  25000 | 2019-04-01 |
| 104 | Jai    | Sr. Associate | Mumbai   |  35000 | 2014-08-05 |
+------+--------+--------------+----------+--------+------------+
4 rows in set (0.00 sec)


mysql> alter table employee modify column salary varchar(100);
Query OK, 4 rows affected (0.20 sec)
Records: 4  Duplicates: 0  Warnings: 0


mysql> describe employee;
+-------------+--------------+------+-----+---------+-------+
| Field       | Type         | Null | Key | Default | Extra |
+-------------+--------------+------+-----+---------+-------+
| id          | int          | YES  |     | NULL    |       |
| name        | varchar(100) | YES  |     | NULL    |       |
| position    | varchar(45)  | YES  |     | NULL    |       |
| address     | varchar(88)  | YES  |     | NULL    |       |
| salary      | varchar(100) | YES  |     | NULL    |       |
| joiningDate | date         | YES  |     | NULL    |       |
+-------------+--------------+------+-----+---------+-------+
6 rows in set (0.19 sec)


mysql> create view staff as select* from employee;
Query OK, 0 rows affected (0.10 sec)


mysql> select*from employee;
+------+--------+--------------+----------+--------+------------+
| id   | name   | position     | address  | salary | joiningDate |
+------+--------+--------------+----------+--------+------------+
| 101 | Shyam  | Associate    | Mumbai   |  40000 | 2015-01-01 |
```

```
| 102 | Sravan | Manager      | Hydrabad | 60000 | 2014-03-01 |
| 103 | Ashish | Trainee      | Nashik   | 25000 | 2019-04-01 |
| 104 | Jai    | Sr. Associate | Mumbai   | 35000 | 2014-08-05 |
+------+--------+--------------+----------+--------+------------+
4 rows in set (0.00 sec)


mysql> create view idview as select id from employee where id=101;
Query OK, 0 rows affected (0.17 sec)


mysql> create database ax;
Query OK, 1 row affected (0.07 sec)


mysql> drop database ax;
Query OK, 0 rows affected (0.15 sec)


mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| abhi               |
| information_schema |
| mysql              |
| performance_schema |
| person1            |
| sys                |
+--------------------+
6 rows in set (0.00 sec)


mysql> drop database abhi;
Query OK, 0 rows affected (0.14 sec)
```

```
mysql> show databases;

+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| person1            |
| sys                |
+--------------------+
5 rows in set (0.00 sec)


mysql> use person1;
Database changed
mysql> select avg(salary) as salary_avg from employee;

+------------+
| salary_avg |
+------------+
|      40000 |
+------------+
1 row in set (0.03 sec)


mysql> select count(*) from employee;

+----------+
| count(*) |
+----------+
|        4 |
+----------+
1 row in set (0.09 sec)


mysql> select max(salary) as max_salary from employee;
```

```
+------------+
| max_salary |
+------------+
| 60000      |
+------------+
1 row in set (0.03 sec)


mysql> select min(salary) as min_salary from employee;
+------------+
| min_salary |
+------------+
| 25000      |
+------------+
1 row in set (0.00 sec)


mysql> select sum(salary) as total_salary from employee;
+--------------+
| total_salary |
+--------------+
|       160000 |
+--------------+
1 row in set (0.00 sec)


mysql>
```