

Problem Statement :- Design and develop DB using various SQL objects like Tables, Views, Index, Sequence, Synonym on sample DB.

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```
mysql> show databases;
+-----+
| Database |
+-----+
| EMP      |
| Library  |
| dml      |
| information_schema |
| mysql    |
| performance_schema |
| sys      |
+-----+
7 rows in set (0.00 sec)
```

```
mysql> create database emp;
Query OK, 1 row affected (0.12 sec)
```

```
mysql> use emp;
Database changed
```

```
mysql> create table emp (empno int(6),ename varchar(20) not null ,job varchar(10)
not null ,deptno int(3),sal int(5));
Query OK, 0 rows affected, 3 warnings (1.16 sec)
```

```
mysql> alter table emp modify empno int(6) primary key;
Query OK, 0 rows affected, 1 warning (1.42 sec)
Records: 0 Duplicates: 0 Warnings: 1
```

```
mysql> desc emp;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| empno | int           | NO   | PRI | NULL    |       |
| ename | varchar(20)   | NO   |     | NULL    |       |
| job   | varchar(10)   | NO   |     | NULL    |       |
| deptno | int           | YES  |     | NULL    |       |
| sal   | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.01 sec)
```

```
mysql> alter table emp modify job varchar(20);
Query OK, 0 rows affected (1.17 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc emp;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| empno | int           | NO   | PRI | NULL    |       |
| ename | varchar(20)   | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```

Field	Type	Null	Key	Default	Extra
job	varchar(20)	YES		NULL	
deptno	int	YES		NULL	
sal	int	YES		NULL	

5 rows in set (0.00 sec)

```
mysql> create table dept (deptno int(2) primary key ,dname varchar(10),loc
varchar(10));
```

Query OK, 0 rows affected, 1 warning (0.51 sec)

```
mysql> desc dept;
```

Field	Type	Null	Key	Default	Extra
deptno	int	NO	PRI	NULL	
dname	varchar(10)	YES		NULL	
loc	varchar(10)	YES		NULL	

3 rows in set (0.00 sec)

```
mysql> create table emp1 (ename varchar(20),empno int(3),check(empno>100));
```

Query OK, 0 rows affected, 1 warning (1.07 sec)

```
mysql> ALTER TABLE emp ADD experience varchar(20);
```

Query OK, 0 rows affected (0.36 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> alter table emp drop column experience;
```

Query OK, 0 rows affected (1.18 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> desc emp;
```

Field	Type	Null	Key	Default	Extra
empno	int	NO	PRI	NULL	
ename	varchar(20)	NO		NULL	
job	varchar(20)	YES		NULL	
deptno	int	YES		NULL	
sal	int	YES		NULL	

5 rows in set (0.00 sec)

```
mysql> insert into emp values(101,'Asha','Computer Engg',1,50000);
```

Query OK, 1 row affected (0.12 sec)

```
mysql> select * from emp;
```

empno	ename	job	deptno	sal
101	Asha	Computer Engg	1	50000

1 row in set (0.00 sec)

```
mysql> insert into emp values(102,'Bhushan Asati','AI ML Enthusiast',2,500000);
```

Query OK, 1 row affected (0.10 sec)

```
mysql> insert into emp values(103,'Sayaji','Web Developer',3,500000);
```

Query OK, 1 row affected (0.20 sec)

```
mysql> select * from emp;
```

empno	ename	job	deptno	sal
101	Asha	Computer Engg	1	50000
102	Bhushan Asati	AI ML Enthusiast	2	500000
103	Sayaji	Web Developer	3	500000

3 rows in set (0.00 sec)

```
mysql> truncate table emp;
```

Query OK, 0 rows affected (0.70 sec)

```
mysql> drop table dept;
```

Query OK, 0 rows affected (0.62 sec)

```
mysql> select * from emp;
```

Empty set (0.01 sec)

```
mysql> insert into emp values(101,'Asha','Computer Engg',1,50000);
```

Query OK, 1 row affected (0.18 sec)

```
mysql> insert into emp values(102,'Bhushan Asati','AI ML Enthusiast',2,500000);
```

Query OK, 1 row affected (0.10 sec)

```
mysql> insert into emp values(103,'Sayaji','Web Developer',3,500000);
```

Query OK, 1 row affected (0.09 sec)

```
mysql> select * from emp;
```

empno	ename	job	deptno	sal
101	Asha	Computer Engg	1	50000
102	Bhushan Asati	AI ML Enthusiast	2	500000
103	Sayaji	Web Developer	3	500000

3 rows in set (0.00 sec)

```
mysql> create view empview as select * from emp where job='Computer Engg';
```

Query OK, 0 rows affected (0.16 sec)

```
mysql> select * from empview;
```

empno	ename	job	deptno	sal
101	Asha	Computer Engg	1	50000

1 row in set (0.00 sec)

```
mysql> create view empview2 as select empno,ename,job,deptno from emp;
```

Query OK, 0 rows affected (0.19 sec)

```
mysql> select * from empview2;
```

empno	ename	job	deptno
101	Asha	Computer Engg	1

102	Bhushan Asati	AI ML Enthusiast	2
103	Sayaji	Web Developer	3

3 rows in set (0.00 sec)

```
mysql> insert into empview values(105,'Ajesh','Android Developer',4,60000)
;
Query OK, 1 row affected (0.15 sec)
```

```
mysql> select * from empview;
+-----+-----+-----+-----+-----+
| empno | ename | job          | deptno | sal  |
+-----+-----+-----+-----+-----+
| 101   | Asha  | Computer Engg | 1      | 50000 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select * from emp;
+-----+-----+-----+-----+-----+
| empno | ename          | job          | deptno | sal  |
+-----+-----+-----+-----+-----+
| 101   | Asha           | Computer Engg | 1      | 50000 |
| 102   | Bhushan Asati  | AI ML Enthusiast | 2      | 500000 |
| 103   | Sayaji         | Web Developer | 3      | 500000 |
| 105   | Ajesh          | Android Developer | 4      | 60000 |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> insert into empview2 values(106,'Pravin','Web Developer',4);
Query OK, 1 row affected (0.13 sec)
```

```
mysql> select * from empview2;
+-----+-----+-----+-----+
| empno | ename          | job          | deptno |
+-----+-----+-----+-----+
| 101   | Asha           | Computer Engg | 1      |
| 102   | Bhushan Asati  | AI ML Enthusiast | 2      |
| 103   | Sayaji         | Web Developer | 3      |
| 105   | Ajesh          | Android Developer | 4      |
| 106   | Pravin         | Web Developer | 4      |
+-----+-----+-----+-----+
5 rows in set (0.01 sec)
```

```
mysql> select * from emp;
+-----+-----+-----+-----+-----+
| empno | ename          | job          | deptno | sal  |
+-----+-----+-----+-----+-----+
| 101   | Asha           | Computer Engg | 1      | 50000 |
| 102   | Bhushan Asati  | AI ML Enthusiast | 2      | 500000 |
| 103   | Sayaji         | Web Developer | 3      | 500000 |
| 105   | Ajesh          | Android Developer | 4      | 60000 |
| 106   | Pravin         | Web Developer | 4      | NULL |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> drop view empview;
Query OK, 0 rows affected (0.17 sec)
```

```
mysql> drop view empview2;  
Query OK, 0 rows affected (0.13 sec)
```

```
mysql> select * from empview;  
ERROR 1146 (42S02): Table 'emp.empview' doesn't exist
```