

*******Design and Develop SQL DDL statements which demonstrate the use of SQL objects such as Table, View, Index, Sequence, Synonym, different constraints etc. *******

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Microsoft Windows [Version 10.0.22631.3880]
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C:\Users\HP>mysql -u root -p

Enter password: ****

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

Your MySQL connection id is 14

Server version: 8.0.38 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          |
+-----+
| emp                |
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+-----+
5 rows in set (0.04 sec)
```

mysql> create database info;

Query OK, 1 row affected (0.05 sec)

mysql> show databases;

```
+-----+
| Database          |
+-----+
| emp                |
| info               |
| information_schema |
| mysql              |
+-----+
```

```
| performance_schema |
| sys                |
+-----+
6 rows in set (0.00 sec)
```

```
mysql> use info;
Database changed
```

```
/* Create a table which are contains column(attributes: with data types
*/
```

```
mysql> create table student(roll_no int(30) primary key,name
varchar(40),age int(30));
Query OK, 0 rows affected, 2 warnings (0.09 sec)
```

```
mysql> desc student;
```

```
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| roll_no | int          | NO   | PRI | NULL    |       |
| name    | varchar(40)  | YES  |     | NULL    |       |
| age     | int          | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> create table stud(name varchar(40) not NULL);
Query OK, 0 rows affected (0.06 sec)
```

```
/* by using Alter command New attribute Address are added in table: */
```

```
mysql> Alter table Student add Address varchar(30);
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc student;
```

```
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| roll_no | int          | NO   | PRI | NULL    |       |
| name    | varchar(40)  | YES  |     | NULL    |       |
| age     | int          | YES  |     | NULL    |       |
| Address | varchar(30)  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
/* by using Alter Modify table */
```

```
mysql> Alter table Student modify age int(5);
Query OK, 0 rows affected, 1 warning (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 1
```

```
mysql> desc student;
```

```
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| roll_no | int          | NO   | PRI | NULL    |       |
| name    | varchar(40)  | YES  |     | NULL    |       |
| age     | int          | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```


3 rows in set (0.06 sec)

```
mysql> alter table student add index ind2(address);
```

Query OK, 0 rows affected (0.06 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
/* Display the index from student */
```

```
mysql> show index from student;
```

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment
student	0	PRIMARY	1	roll_no	A						
	0	NULL	NULL								
YES	NULL										
student	0	ind1	1	name	A						
	0	NULL	NULL	YES	BTREE						
YES	NULL										
student	0	ind1	2	roll_no	A						
	0	NULL	NULL								
YES	NULL										
student	1	ind2	1	Address	A						
	0	NULL	NULL	YES	BTREE						
YES	NULL										

4 rows in set (0.01 sec)

```
/* Remove the student from the database(info) : */
```

```
mysql> drop table student;
```

Query OK, 0 rows affected (0.07 sec)

```
mysql> desc student;
```

ERROR 1146 (42S02): Table 'info.student' doesn't exist

```
mysql>
```