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ASSIGNMENT NO: 2A

AIM: Design and develop SQL DDL statement which demonstrates the use of SQL objects such as table ,view ,index,sequence,synonym.

(base) sspm@sspm:~\$ sudo su [sudo] password for sspm: root@sspm:/home/sspm# service start
mysqld start; start: unrecognized service root@sspm:/home/sspm# mysql -u root -p Enter
password:

Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.0.30-0ubuntu0.20.04.2 (Ubuntu)

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owners.

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

mysql> create database school;
Query OK, 1 row affected (0.13 sec)

mysql> use school;
Database changed

Create table from existing table:

mysql> create table newschool_info(stud_name varchar(20),roll_no int(10),address
varchar(20),class int(10),attendance varchar(20),marks int(20));
Query OK, 0 rows affected, 3 warnings (6.32 sec)

mysql> select * from newschool_info;
Empty set (0.00 sec)

mysql> insert into newschool_info values('siddhu',1,'supe',12,'A',70);
Query OK, 1 row affected (0.11 sec)

mysql> insert into newschool_info values('rohit',2,'someswar',12,'B',75);
Query OK, 1 row affected (0.48 sec)

```
mysql> insert into newschool_info values('vivek',3,'nira',12,'C',80); Query
OK, 1 row affected (0.21 sec)
```

```
mysql> select * from newschool_info;
```

```
+-----+-----+-----+-----+-----+-----+
| stud_name | roll_no | address | class | attendance | marks |
+-----+-----+-----+-----+-----+-----+
| siddhu | 1 | supe | 12 | A | 70 |
| rohit | 2 | someshwar | 12 | B | 75 |
| vivek | 3 | nira | 12 | C | 80 |
+-----+-----+-----+-----+-----+-----+ 3
rows in set (0.00 sec)
```

Create table from existing table with specific field:

```
mysql> create table newschool_info2(stud_name varchar(20),roll_no int(10),address varchar(20));
Query OK, 0 rows affected, 1 warning (0.63 sec)
```

```
mysql> select * from newschool_info;
```

```
+-----+-----+-----+-----+-----+-----+
| stud_name | roll_no | address | class | attendance | marks |
+-----+-----+-----+-----+-----+-----+
| siddhu | 1 | supe | 12 | A | 70 |
| rohit | 2 | someshwar | 12 | B | 75 |
| vivek | 3 | nira | 12 | C | 80 |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> select * from newschool_info2;
Empty set (0.00 sec)
```

```
mysql> insert into newschool_info2 values('siddhu',1,'supe');
Query OK, 1 row affected (0.82 sec)
```

```
mysql> insert into newschool_info2 values('rohit',2,'someshwar');
Query OK, 1 row affected (0.11 sec)
```

```
mysql> insert into newschool_info2 values('vivek',3,'nira'); Query
OK, 1 row affected (0.10 sec)
```

```
mysql> select * from newschool_info2;
```

```
+-----+-----+-----+
| stud_name | roll_no | address |
+-----+-----+-----+
| siddhu | 1 | supe |
| rohit | 2 | someshwar |
| vivek | 3 | nira |
```

```
+-----+-----+-----+ 3
rows in set (0.00 sec)
```

Adding column into table: mysql> alter table

newschool_info add grade varchar(2);

Query OK, 0 rows affected (0.59 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select * from newschool_info;

```
+-----+-----+-----+-----+-----+-----+-----+
| stud_name | roll_no | address | class | attendance | marks | grade |
+-----+-----+-----+-----+-----+-----+-----+
| siddhu   | 1 | supe   | 12 | A       | 70 | NULL |
| rohit    | 2 | someshwar | 12 | B       | 75 | NULL |
| vivek    | 3 | nira    | 12 | C       | 80 | NULL |
+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

mysql> update newschool_info set grade='a+' WHERE roll_no=1;

Query OK, 1 row affected (0.10 sec) Rows

matched: 1 Changed: 1 Warnings: 0

mysql> select * from newschool_info;

```
+-----+-----+-----+-----+-----+-----+-----+
| stud_name | roll_no | address | class | attendance | marks | grade |
+-----+-----+-----+-----+-----+-----+-----+
| siddhu   | 1 | supe   | 12 | A       | 70 | a+   |
| rohit    | 2 | someshwar | 12 | B       | 75 | NULL |
| vivek    | 3 | nira    | 12 | C       | 80 | NULL |
+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

mysql> update newschool_info set grade='b' WHERE roll_no=1;

Query OK, 1 row affected (0.10 sec) Rows

matched: 1 Changed: 1 Warnings: 0

mysql> select * from newschool_info;

```
+-----+-----+-----+-----+-----+-----+-----+
| stud_name | roll_no | address | class | attendance | marks | grade |
+-----+-----+-----+-----+-----+-----+-----+
| siddhu   | 1 | supe   | 12 | A       | 70 | b    |
| rohit    | 2 | someshwar | 12 | B       | 75 | NULL |
| vivek    | 3 | nira    | 12 | C       | 80 | NULL |
+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)
```

mysql> alter table newschool_info drop column grade;

Query OK, 0 rows affected (0.51 sec) Records:

0 Duplicates: 0 Warnings: 0

mysql> select * from newschool_info;

stud_name	roll_no	address	class	attendance	marks
siddhu	1	supe	12	A	70
rohit	2	someshwar	12	B	75
vivek	3	nira	12	C	80

3 rows in set (0.00 sec)

Create view:

mysql> create view data as select * from newschool_info;

Query OK, 0 rows affected (0.20 sec)

mysql> select * from newschool_info;

stud_name	roll_no	address	class	attendance	marks
siddhu	1	supe	12	A	70
rohit	2	someshwar	12	B	75
vivek	3	nira	12	C	80

3 rows in set (0.00 sec)

Create view with specific record:

mysql> create view data1 as select stud_name,roll_no from newschool_info;

Query OK, 0 rows affected (0.17 sec)

mysql> select * from data1;

stud_name	roll_no
siddhu	1
rohit	2
vivek	3

3 rows in set (0.00 sec)

Update view:

mysql> update data1 set stud_name='gaury' where roll_no=1;

Query OK, 1 row affected (0.10 sec) Rows

matched: 1 Changed: 1 Warnings: 0

mysql> select * from data1;

```
+-----+-----+
| stud_name | roll_no |
+-----+-----+
| gauri    | 1      |
| rohit    | 2      |
| vivek    | 3      |
+-----+-----+ 3
rows in set (0.00 sec)
```

Drop view:

```
mysql> drop view data1;
Query OK, 0 rows affected (0.13 sec)
```

Creating index: mysql> create index il on
newschool_info(roll_no);
Query OK, 0 rows affected (0.63 sec)

Records: 0 Duplicates: 0 Warnings: 0 mysql>

```
show index from newschool_info; +-----
```

```
---+-----+-----+-----+-----+
+-----+-----+-----+
```

```
+-----+-----+-----+-----+-----+-----+
| Table      | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality |
Sub_part | Packed | Null | Index_type | Comment | Index_comment | Visible | Expression |
+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
| newschool_info | 1 | il | 1 | roll_no | A | 3 | NULL | NULL | YES |
BTREE | | | YES | NULL |
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+ 1 row in set (0.55 sec)
```

Drop index:

```
mysql> drop index il on newschool_info;
Query OK, 0 rows affected (0.26 sec) Records:
0 Duplicates: 0 Warnings: 0
```

```
mysql> show index from newschool_info;
Empty set (0.00 sec)
```

Creating sequence:

```
mysql> create table te(roll_no int auto_increment,primary key(roll_no),name varchar(10));
Query OK, 0 rows affected (0.63 sec)
```

```
mysql> alter table te auto_increment=1;
Query OK, 0 rows affected (0.20 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> insert into te(name) values('gauri'),('pooja'),('priya');
Query OK, 3 rows affected (0.10 sec) Records:
3 Duplicates: 0 Warnings: 0
```

```
mysql> select * from te;
```

```
+-----+-----+
| roll_no | name |
+-----+-----+
| 1 | gauri |
| 2 | pooja |
| 3 | priya |
+-----+-----+
```

```
3 rows in set (0.00 sec)
```