

Group A: Lab Assignment No. 2

TITLE: Design and Develop SQL DDL statements which demonstrate the use of SQL objects such as Table, View, Index, Sequence, Synonym

mysql> use Abhi;

Database changed

mysql> show tables;

Empty set (0.02 sec)

mysql> create table client_master(client_no int,client_name varchar(20),address varchar(50),city varchar(10),pincode int,state varchar(20), bal_due float,primary key(client_no));

Query OK, 0 rows affected (0.51 sec)

mysql> select * from client_master;

Empty set (0.02 sec)

**mysql> insert into client_master
values('001','abhi','nasik','nasik','422004','MH','5000');**

Query OK, 1 row affected (0.14 sec)

mysql> insert into client_master values('002','piyu','nasik','nasik','422004','MH','10000');

Query OK, 1 row affected (0.09 sec)

mysql> insert into client_master values('003','abd','nasik','nasik','422003','MH','5000');

Query OK, 1 row affected (0.06 sec)

mysql> insert into client_master values('004','abd','nasik','nasik','422003','MH','5000');

Query OK, 1 row affected (0.05 sec)

mysql> insert into client_master values('005','abc','nasik','nasik','422003','MH','5000');

Query OK, 1 row affected (0.06 sec)

mysql> select * from client_master;

```
+-----+-----+-----+-----+-----+-----+
+-----+
| client_no | client_name | address | city |
| bal_due |
| pincode | state |
+-----+-----+-----+-----+-----+-----+
+-----+
|
| 1 | abhi
5000 | | nasik | nasik | 422004 | MH
|
| 2 | piyu
10000 | | nasik | nasik | 422004 | MH
|
| 3 | abd
5000 | | nasik | nasik | 422003 | MH
|
| 4 | abd
5000 | | nasik | nasik | 422003 | MH
|
| 5 | abc
5000 | | nasik | nasik | 422003 | MH
+-----+-----+-----+-----+-----+-----+
+-----+
5 rows in set (0.00 sec)
```

mysql> select client_name,client_no from client_master;

```
+-----+-----+
| client_name | client_no |
+-----+-----+
| abhi | 1 |
| piyu | 2 |
| abd | 3 |
| abd | 4 |
| abc | 5 | +-----+-----+
```

5 rows in set (0.00 sec)

mysql> insert into client_master values('006','xyz','nasik','nasik','422004','MH','6000');

Query OK, 1 row affected (0.15 sec)

mysql> select client_name,client_no from client_master;

```
+-----+-----+
| client_name | client_no |
+-----+-----+
| abhi | 1 |
| piyu | 2 |
| abd | 3 |
```

abd	4
abc	5
xyz	6

6 rows in set (0.08 sec)

```
mysql> create table product_master(product_no int,description varchar(20),profit_per
float,unit_measure varchar(10),quantity int,reorder int,sell_price float,cost_price
float,primary key(product_no));
```

Query OK, 0 rows affected (0.77 sec)

```
mysql> insert into product_master values('001','shampoo','1','one','4','2','10','15');
```

Query OK, 1 row affected (0.17 sec)

```
mysql> insert into product_master values('002','oil','13','one','4','2','11','16');
```

Query OK, 1 row affected (0.06 sec)

```
mysql> alter table client_master add telephone_no int;
```

Query OK, 0 rows affected (1.04 sec)

Records: 0

Duplicates: 0

Warnings: 0

```
mysql> select * from client_master;
```

```
+-----+-----+-----+-----+-----+-----+
+-----+-----+
| client_no | client_name | address | city
| bal_due | telephone_no |
| pincode | state
+-----+-----+-----+-----+-----+-----+
+-----+-----+
|
| 1 | abhi
5000 |
|
| 2 | piyu
10000 |
|
| 3 | abd
5000 |
|
| 4 | abd
5000 |
```

```

|
| 5 | abc
5000 |
|
| 6 | xyz
6000 |
| nasik
| nasik | 422004 | MH
| nasik | 422004 | MH
| nasik | 422003 | MH
| nasik | 422003 | MH
| nasik | 422003 | MH
| nasik | 422004 | MH
NULL |
| nasik
NULL |
| nasik
NULL |
| nasik
NULL |
| nasik
NULL |
| nasik
NULL |
+-----+-----+-----+-----+-----+-----+
+-----+-----+
6 rows in set (0.00 sec)

```

mysql> select * from product_master;

```

+-----+-----+-----+-----+
+-----+-----+-----+-----+
| product_no | description | profit_per | unit_measure |
quantity | reorder | sell_price | cost_price |
+-----+-----+-----+-----+
+-----+-----+-----+-----+
|
4 |
1 | shampoo
|
2 |
10 |
1 | one
15 |
||
4 |
2 | oil
2 |
|
11 |
13 | one
16 |

```

```
|
+-----+-----+-----+-----+
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

mysql> create index client_search on client_master(client_no);

Query OK, 0 rows affected (0.42 sec)

Records: 0

Duplicates: 0

Warnings: 0

**mysql> create table auto(roll_no int NOT NULL AUTO_INCREMENT,name
varchar(20),primary key(roll_no));**

Query OK, 0 rows affected (0.36 sec)

mysql> select * from auto;

Empty set (0.01 sec)

mysql> insert into auto values('1','abc');

Query OK, 1 row affected (0.07 sec)

mysql> insert into auto values('2','adc');

Query OK, 1 row affected (0.08 sec)

mysql> alter table auto auto_increment=100;

Query OK, 0 rows affected (0.07 sec)

Records: 0

Duplicates: 0

mysql> select * from auto;

```
+-----+-----+
| roll_no | name |
+-----+-----+
| 1 | abc |
| 2 | adc |
```

Warnings: 0+-----+-----+

2 rows in set (0.00 sec)

mysql> insert into auto values(null,'abd');

Query OK, 1 row affected (0.05 sec)

mysql> select * from auto;

```
+-----+-----+
| roll_no | name |
+-----+-----+
| 1 | abc |
| 2 | adc |
| 100 | abd |
+-----+-----+
3 rows in set (0.00 sec)
```

mysql> insert into auto values(null,'reh');

Query OK, 1 row affected (0.06 sec)

mysql> select * from auto;

```
+-----+-----+
| roll_no | name |
+-----+-----+
| 1 | abc |
| 2 | adc |
| 100 | abd |
| 101 | reh |
+-----+-----+
4 rows in set (0.00 sec)
```

mysql> update client_master set client_name="nut" where client_no='4';

Query OK, 1 row affected (0.09 sec)

Rows matched: 1

Changed: 1

Warnings: 0

mysql> select * from client_master;

```
+-----+-----+-----+-----+-----+-----+
+-----+-----+
| client_no | client_name | address | city
| bal_due | telephone_no |
| pincode | state
+-----+-----+-----+-----+-----+-----+
+-----+-----+
|
| 1 | abhi
5000 | NULL |
| nasik
|
| 2 | piyu
10000 | NULL |
|
| 3 | abd
```

```

5000 | NULL |
|
| 4 | nut
5000 | NULL |
|
| 5 | abc
5000 | NULL |
|
| 6 | xyz
6000 | NULL |
| nasik
| nasik
| nasik
| nasik
| nasik
| nasik | 422004 | MH
| nasik | 422004 | MH
| nasik | 422003 | MH
| nasik | 422003 | MH
| nasik | 422003 | MH
| nasik | 422004 | MH
+-----+-----+-----+-----+-----+-----
+-----+-----+
6 rows in set (0.00 sec)

```

mysql> create index client_find on client_master(client_name,city);

affected (0.41 sec)

Records: 0

Duplicates: 0

mysql> show tables;

```

+-----+
| Tables_in_Abhi |
+-----+
| auto
|
Warnings: 0
Query OK, 0 rows| client_master
|
| product_master |
+-----+
3 rows in set (0.08 sec)

```

mysql> select * from product_master;

```

+-----+-----+-----+-----+
+-----+-----+-----+-----+
| product_no | description | profit_per | unit_measure |
quantity | reorder | sell_price | cost_price |
+-----+-----+-----+-----+

```

```

+-----+-----+-----+-----+
|
4 | 1 | shampoo
|
2 |
10 | 1 | one
15 | |
|
4 | 2 | oil
2 | 13 | one
16 | |
|
11 |
+-----+-----+-----+-----+
+-----+-----+-----+-----+
2 rows in set (0.00 sec)

```

mysql> desc product_master;

```

+-----+-----+-----+-----+-----+
| Field
| Type
| Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| product_no | int(11)
| description | profit_per
| NO
| PRI | NULL | | | | |
| varchar(20) | YES | | NULL | |
| float | YES | | NULL | |
| unit_measure | varchar(10) | YES | | NULL | |
| quantity | int(11) | YES | | NULL | |
| reorder | int(11) | YES | | NULL | |
| sell_price | float | YES | | NULL | |
| cost_price | float | YES | | NULL | |
+-----+-----+-----+-----+-----+
8 rows in set (0.05 sec)

```

mysql> alter table client_master rename to c_master;

Query OK, 0 rows affected (0.25 sec)

mysql> insert into product_master values('003','nutela','15','three','40','5','110','123');

Query OK, 1 row affected (0.05 sec)

mysql> alter table product_master modify sell_price float(10,2);

Query OK, 0 rows affected (0.06 sec)

Records: 0

Duplicates: 0

Warnings: 0

mysql> desc product_master;

```
+-----+-----+-----+-----+
| Field |
| Type |
| Null | Key | Default | Extra |
+-----+-----+-----+-----+
| product_no | int(11) | | | | |
| description | varchar(20) | YES | | NULL | |
| profit_per | float | YES | | NULL | |
| NO |
| PRI | NULL | | | | |
| unit_measure | varchar(10) | YES | | NULL | |
| quantity | int(11) | YES | | NULL | |
| reorder | int(11) | YES | | NULL | |
| sell_price | float(10,2) | YES | | NULL | |
| cost_price | float | | NULL | |
| YES |
+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```

mysql> create view client as select client_no,client_name from c_master;

Query OK, 0 rows affected (0.05 sec)

mysql> select * from client;

```
+-----+-----+| client_no | client_name |
+-----+-----+
| 5 | abc |
| 3 | abd |
| 1 | abhi |
| 4 | nut |
| 2 | piyu |
| 6 | xyz |
+-----+-----+
6 rows in set (0.23 sec)
```

mysql>