

## **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**

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```
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
+-----+-----+-----+-----+
| 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 |
|-----------|-------------|---------|------|
| 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 |
+-----+-----+-----+-----+
+-----+-----+
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  | 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(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>
```