Group A: Lab Assignment No. 1

**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 |+-------------+ +

1. 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 |

1. 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 |

1. | 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+---------+ +

1. 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 |

+---------+------+

1. 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 |

+---------+------+

1. 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 |

+----------------+

1. rows in set (0.08 sec)

# mysql> select \* from product\_master;

+------------+-------------+------------+--------------

+----------+---------+------------+------------+

| product\_no | description | profit\_per | unit\_measure | quantity | reorder | sell\_price | cost\_price |

+------------+-------------+------------+--------------

+----------+---------+------------+------------+

|

1. | 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>