**NAME : Sushant Rokade**

**ROLL NO: 65 BATCH : T4**

**EXPERIMENT NO.3**

svkm@svkm-HP-200-G3-AiO:~$ sudo mysql

[sudo] password for svkm:

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

Your MySQL connection id is 8

Server version: 8.0.28-0ubuntu0.20.04.3 (Ubuntu)

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owners.

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

mysql> show databases;

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

| Database |

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

| information\_schema |

| mysql |

| performance\_schema |

| sys |

| tyit |

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

5 rows in set (0.03 sec)

mysql> create database btech;

Query OK, 1 row affected (0.08 sec)

mysql> use btech;

Database changed

mysql> drop database btech;

Query OK, 0 rows affected (0.11 sec)

mysql> create database btech;

Query OK, 1 row affected (0.14 sec)

mysql> use btech;

Database changed

mysql> create table student (roll\_no int, name char(20), marks char(20));

Query OK, 0 rows affected (0.43 sec)

mysql> describe student;

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

| Field | Type | Null | Key | Default | Extra |

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

| roll\_no | int | YES | | NULL | |

| name | char(20) | YES | | NULL | |

| marks | char(20) | YES | | NULL | |

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

3 rows in set (0.01 sec)

mysql> alter table student add age int after marks;

Query OK, 0 rows affected (0.36 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> describe student;

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

| Field | Type | Null | Key | Default | Extra |

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

| roll\_no | int | YES | | NULL | |

| name | char(20) | YES | | NULL | |

| marks | char(20) | YES | | NULL | |

| age | int | YES | | NULL | |

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

4 rows in set (0.00 sec)

mysql> alter table student add address char after age, add mobile int after address;

Query OK, 0 rows affected (0.29 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> describe student;

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

| Field | Type | Null | Key | Default | Extra |

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

| roll\_no | int | YES | | NULL | |

| name | char(20) | YES | | NULL | |

| marks | char(20) | YES | | NULL | |

| age | int | YES | | NULL | |

| address | char(1) | YES | | NULL | |

| mobile | int | YES | | NULL | |

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

6 rows in set (0.00 sec)

mysql> alter table student modify name varchar(20) after roll\_no;

Query OK, 0 rows affected (1.93 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> describe student;

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

| Field | Type | Null | Key | Default | Extra |

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

| roll\_no | int | YES | | NULL | |

| name | varchar(20) | YES | | NULL | |

| marks | char(20) | YES | | NULL | |

| age | int | YES | | NULL | |

| address | char(1) | YES | | NULL | |

| mobile | int | YES | | NULL | |

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

6 rows in set (0.00 sec)

mysql> alter table student modify address varchar(20) after age, modify mobile varchar(20) after address;

Query OK, 0 rows affected (0.90 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> describe student;

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

| Field | Type | Null | Key | Default | Extra |

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

| roll\_no | int | YES | | NULL | |

| name | varchar(20) | YES | | NULL | |

| marks | char(20) | YES | | NULL | |

| age | int | YES | | NULL | |

| address | varchar(20) | YES | | NULL | |

| mobile | varchar(20) | YES | | NULL | |

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

6 rows in set (0.00 sec)

mysql> alter table student drop column mobile;

Query OK, 0 rows affected (0.71 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> describe student;

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

| Field | Type | Null | Key | Default | Extra |

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

| roll\_no | int | YES | | NULL | |

| name | varchar(20) | YES | | NULL | |

| marks | char(20) | YES | | NULL | |

| age | int | YES | | NULL | |

| address | varchar(20) | YES | | NULL | |

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

5 rows in set (0.01 sec)

mysql> alter table student change column name f\_name varchar(20) after roll\_no;

Query OK, 0 rows affected (0.29 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> describe student;

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

| Field | Type | Null | Key | Default | Extra |

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

| roll\_no | int | YES | | NULL | |

| f\_name | varchar(20) | YES | | NULL | |

| marks | char(20) | YES | | NULL | |

| age | int | YES | | NULL | |

| address | varchar(20) | YES | | NULL | |

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

5 rows in set (0.00 sec)

mysql> alter table student rename to stud;

Query OK, 0 rows affected (0.22 sec)

mysql> describe stud;

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

| Field | Type | Null | Key | Default | Extra |

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

| roll\_no | int | YES | | NULL | |

| f\_name | varchar(20) | YES | | NULL | |

| marks | char(20) | YES | | NULL | |

| age | int | YES | | NULL | |

| address | varchar(20) | YES | | NULL | |

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

5 rows in set (0.01 sec)

mysql> show tables;

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

| Tables\_in\_btech |

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

| stud |

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

1 row in set (0.00 sec)

mysql> insert into stud(roll\_no, f\_name, marks, age, address) values(1, 'raj', 80, 20, 'dhule');

Query OK, 1 row affected (0.07 sec)

mysql> describe stud;

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

| Field | Type | Null | Key | Default | Extra |

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

| roll\_no | int | YES | | NULL | |

| f\_name | varchar(20) | YES | | NULL | |

| marks | char(20) | YES | | NULL | |

| age | int | YES | | NULL | |

| address | varchar(20) | YES | | NULL | |

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

5 rows in set (0.00 sec)

mysql> select \* from stud;

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

| roll\_no | f\_name | marks | age | address |

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

| 1 | raj | 80 | 20 | dhule |

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

1 row in set (0.01 sec)

mysql> insert into stud(roll\_no, f\_name, marks, age, address) values (2, 'sham', 90, 19, 'dhule'), (3, 'ram', 85, 21, 'deopur');

Query OK, 2 rows affected (0.07 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> select \* from stud;

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

| roll\_no | f\_name | marks | age | address |

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

| 1 | raj | 80 | 20 | dhule |

| 2 | sham | 90 | 19 | dhule |

| 3 | ram | 85 | 21 | deopur |

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

3 rows in set (0.00 sec)

mysql> alter table stud add column l\_name varchar(20) after f\_name;

Query OK, 0 rows affected (1.05 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> describe stud;

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

| Field | Type | Null | Key | Default | Extra |

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

| roll\_no | int | YES | | NULL | |

| f\_name | varchar(20) | YES | | NULL | |

| l\_name | varchar(20) | YES | | NULL | |

| marks | char(20) | YES | | NULL | |

| age | int | YES | | NULL | |

| address | varchar(20) | YES | | NULL | |

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

6 rows in set (0.01 sec)

mysql> insert into stud(roll\_no, f\_name, l\_name, marks, age, address) values(2,'sham', 'patil', 90, 19, 'dhule'),(3, 'ram', 'patil', 85, 20, 'deopur');

Query OK, 2 rows affected (0.06 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> select \* from stud;

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

| roll\_no | f\_name | l\_name | marks | age | address |

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

| 1 | raj | NULL | 80 | 20 | dhule |

| 2 | sham | patil | 90 | 19 | dhule |

| 3 | ram | patil | 85 | 20 | deopur |

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

3 rows in set (0.01 sec)

mysql> insert into stud(l\_name) values('patil');

Query OK, 1 row affected (0.05 sec)

mysql> select \* from stud;

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

| roll\_no | f\_name | l\_name | marks | age | address |

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

| 1 | raj | NULL | 80 | 20 | dhule |

| 2 | sham | patil | 90 | 19 | dhule |

| 3 | ram | patil | 85 | 20 | deopur |

| NULL | NULL | patil | NULL | NULL | NULL |

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

4 rows in set (0.01 sec)

mysql> update stud set l\_name='patil' where l\_name IS NULL;

Query OK, 1 row affected (0.09 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from stud;

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

| roll\_no | f\_name | l\_name | marks | age | address |

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

| 1 | raj | patil | 80 | 20 | dhule |

| 2 | sham | patil | 90 | 19 | dhule |

| 3 | ram | patil | 85 | 20 | deopur |

| NULL | NULL | patil | NULL | NULL | NULL |

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

4 rows in set (0.00 sec)

mysql> delete from stud where roll\_no = NULL;

Query OK, 0 rows affected (0.00 sec)

mysql> select \* from stud;

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

| roll\_no | f\_name | l\_name | marks | age | address |

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

| 1 | raj | patil | 80 | 20 | dhule |

| 2 | sham | patil | 90 | 19 | dhule |

| 3 | ram | patil | 85 | 20 | deopur |

| NULL | NULL | patil | NULL | NULL | NULL |

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

4 rows in set (0.00 sec)

mysql> delete from stud

-> where roll\_no = NULL;

Query OK, 0 rows affected (0.00 sec)

mysql> select \* from stud;

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

| roll\_no | f\_name | l\_name | marks | age | address |

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

| 1 | raj | patil | 80 | 20 | dhule |

| 2 | sham | patil | 90 | 19 | dhule |

| 3 | ram | patil | 85 | 20 | deopur |

| NULL | NULL | patil | NULL | NULL | NULL |

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

4 rows in set (0.00 sec)

mysql> delete from stud where f\_name = NULL;

Query OK, 0 rows affected (0.00 sec)

mysql> select \* from stud;

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

| roll\_no | f\_name | l\_name | marks | age | address |

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

| 1 | raj | patil | 80 | 20 | dhule |

| 2 | sham | patil | 90 | 19 | dhule |

| 3 | ram | patil | 85 | 20 | deopur |

| NULL | NULL | patil | NULL | NULL | NULL |

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

4 rows in set (0.00 sec)

mysql> delete from stud where roll\_no IS NULL;

Query OK, 1 row affected (0.11 sec)

mysql> select \* from stud;

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

| roll\_no | f\_name | l\_name | marks | age | address |

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

| 1 | raj | patil | 80 | 20 | dhule |

| 2 | sham | patil | 90 | 19 | dhule |

| 3 | ram | patil | 85 | 20 | deopur |

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

3 rows in set (0.00 sec)