25   ### Third Section ###

   Date : 25/09/21

      I N S T A L L A T I O N S OF M Y S Q L

      ### Second Section ###
   DATE :26/09/21
       D A T A B A S E S

DATABASES:- collectin of multi-tables data.
TABLE:- combination of rows & colomns data.


```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| cscorner           |
| information_schema |
| mysql              |
| performance_schema |
| sql_airport        |
| sql_bus            |
| sql_guitar         |
| sql_info           |
| sql_lotus          |
| sql_pride          |
| sql_robotics       |
| sql_school         |
| sql_weekend        |
| sql_wzlord         |
| sys                |
+--------------------+
15 rows in set (0.00 sec)

mysql> create database sql_mzster;
Query OK, 1 row affected (0.01 sec)

mysql> show databases;
```

```
+--------------------+
| Database           |
+--------------------+
| cscorner           |
| information_schema |
| mysql              |
| performance_schema |
| sql_airport        |
| sql_bus            |
| sql_guitar         |
| sql_info           |
| sql_lotus          |
| sql_mzster         |
| sql_pride          |
| sql_robotics       |
| sql_school         |
| sql_weekend        |
| sql_wzlord         |
| sys                |
+--------------------+
16 rows in set (0.01 sec)


mysql> use sql_mzster;
Database changed
mysql> show tables;
Empty set (0.00 sec)

mysql> create table sql_mzster_9AM(serial_no int(10), name varchar(255),
model_year int(10), color varchar(255));
Query OK, 0 rows affected, 2 warnings (0.06 sec)

mysql> show tables;
+----------------------+
| Tables_in_sql_mzster |
+----------------------+
| sql_mzster_9am       |
+----------------------+
1 row in set (0.00 sec)


mysql> desc sql_mzster_9AM;
+------------+--------------+------+-----+---------+-------+
| Field      | Type         | Null | Key | Default | Extra |
+------------+--------------+------+-----+---------+-------+
| serial_no  | int          | YES  |     | NULL    |       |
```

```
| name       | varchar(255) | YES |    | NULL   |    |
| model_year | int          | YES |    | NULL   |    |
| color      | varchar(255) | YES |    | NULL   |    |
+------------+--------------+-----+----+--------+----+
4 rows in set (0.01 sec)

mysql> insert into sql_mzster_9AM values(1, BMW, 2019, White);
ERROR 1054 (42S22): Unknown column 'BMW' in 'field list'
mysql> insert into sql_mzster_9AM values(1, 'BMW', 2019, 'White');
Query OK, 1 row affected (0.01 sec)

mysql> insert into sql_mzster_9AM values(2, 'R-15', 2020, 'Blue');
Query OK, 1 row affected (0.01 sec)

mysql> insert into sql_mzster_9AM values(3, 'F_z', 2021, 'Matgrey');
Query OK, 1 row affected (0.01 sec)

mysql> insert into sql_mzster_9AM values(4, 'NInja', 2018, 'Yellow');
Query OK, 1 row affected (0.01 sec)


mysql> select * from sql_mzster_9AM;
+-----------+-------+------------+---------+
| serial_no | name  | model_year | color   |
+-----------+-------+------------+---------+
|         1 | BMW   |       2019 | White   |
|         2 | R-15  |       2020 | Blue    |
|         3 | F_z   |       2021 | Matgrey |
|         4 | NInja |       2018 | Yellow  |
+-----------+-------+------------+---------+
4 rows in set (0.00 sec)

mysql>
```


     S P E C I F I E D   D A T A   S E L E C T I O N   on   R
O W S

 DATE: 02/10/2021

```
show databases;
+-------------------+
| Database          |
+-------------------+
```

```
| cscorner           |
| information_schema |
| mysql              |
| performance_schema |
| sql_airport        |
| sql_batch          |
| sql_bus            |
| sql_delhi          |
| sql_guitar         |
| sql_info           |
| sql_lazwer         |
| sql_lotus          |
| sql_mi             |
| sql_mzster         |
| sql_nr             |
| sql_nwler          |
| sql_paltan         |
| sql_path           |
| sql_pen            |
| sql_pride          |
| sql_robotics       |
| sql_runway         |
| sql_school         |
| sql_weekend        |
| sql_wzlord         |
| sys                |
+--------------------+
26 rows in set (0.00 sec)

mysql> create database python_batch;
Query OK, 1 row affected (0.01 sec)

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| cscorner           |
| information_schema |
| mysql              |
| performance_schema |
| python_batch       |
| sql_airport        |
| sql_batch          |
| sql_bus            |
| sql_delhi          |
| sql_guitar         |
```

```
| sql_info           |
| sql_lazwer         |
| sql_lotus          |
| sql_mi             |
| sql_mzster         |
| sql_nr             |
| sql_nwler          |
| sql_paltan         |
| sql_path           |
| sql_pen            |
| sql_pride          |
| sql_robotics       |
| sql_runway         |
| sql_school         |
| sql_weekend        |
| sql_wzlord         |
| sys                |
+--------------------+
27 rows in set (0.01 sec)

mysql> use python_batch;
Database changed
mysql> show  tables;
Empty set (0.00 sec)

mysql> create table python_batch(s_n int(10), name varchar(255), address
varchar(255), DOA varchar(255), number int(10));
Query OK, 0 rows affected, 2 warnings (0.05 sec)

mysql> show tables;
+------------------------+
| Tables_in_python_batch |
+------------------------+
| python_batch           |
+------------------------+
1 row in set (0.00 sec)

mysql> desc pyhton_batch;
ERROR 1146 (42S02): Table 'python_batch.pyhton_batch' doesn't exist
mysql> desc python_batch;
+---------+--------------+------+-----+---------+-------+
| Field   | Type         | Null | Key | Default | Extra |
+---------+--------------+------+-----+---------+-------+
| s_n     | int          | YES  |     | NULL    |       |
| name    | varchar(255) | YES  |     | NULL    |       |
| address | varchar(255) | YES  |     | NULL    |       |
```

```
| DOA      | varchar(255) | YES |     | NULL    |       |
| number   | int          | YES |     | NULL    |       |
+---------+--------------+------+-----+---------+-------+
5 rows in set (0.01 sec)

mysql> insert into python_batch values(1, 'Priyanka', 'Kondhwa',
'2021-05-20', 456);
Query OK, 1 row affected (0.01 sec)

mysql> insert into python_batch values(2, 'Priya', 'pimpri', '2021-06-20',
556);
Query OK, 1 row affected (0.01 sec)

mysql> insert into python_batch values(7, 'sanjana', 'nasik', '2021-07-20',
956);
Query OK, 1 row affected (0.01 sec)

mysql> insert into python_batch values(5, 'vaibhav', 'nasik', '2021-07-20',
952);
Query OK, 1 row affected (0.01 sec)

mysql> insert into python_batch values(10, 'harshada', 'jalgaon',
'2021-08-20',802);
Query OK, 1 row affected (0.01 sec)

mysql> insert into python_batch values(13, 'harshal', 'jalana',
'2011-08-10',662);
Query OK, 1 row affected (0.00 sec)

mysql> insert into python_batch values(17, 'bhushan', 'pune',
'2018-08-10',762);
Query OK, 1 row affected (0.01 sec)

mysql> insert into python_batch values(23, 'perna', 'mumbai',
'2020-09-10',1022);
Query OK, 1 row affected (0.01 sec)

mysql> select * from python_batch;
+------+----------+---------+------------+--------+
| s_n  | name     | address | DOA        | number |
+------+----------+---------+------------+--------+
|    1 | Priyanka | Kondhwa | 2021-05-20 |    456 |
|    2 | Priya    | pimpri  | 2021-06-20 |    556 |
|    7 | sanjana  | nasik   | 2021-07-20 |    956 |
|    5 | vaibhav  | nasik   | 2021-07-20 |    952 |
|   10 | harshada | jalgaon | 2021-08-20 |    802 |
```

```
|    13 | harshal  | jalana  | 2011-08-10 |     662 |
|    17 | bhushan  | pune    | 2018-08-10 |     762 |
|    23 | perna    | mumbai  | 2020-09-10 |    1022 |
+------+----------+---------+------------+--------+
8 rows in set (0.00 sec)


mysql> select s_n, name, DOA from python_batch;
+------+----------+------------+
| s_n  | name     | DOA        |
+------+----------+------------+
|    1 | Priyanka | 2021-05-20 |
|    2 | Priya    | 2021-06-20 |
|    7 | sanjana  | 2021-07-20 |
|    5 | vaibhav  | 2021-07-20 |
|   10 | harshada | 2021-08-20 |
|   13 | harshal  | 2011-08-10 |
|   17 | bhushan  | 2018-08-10 |
|   23 | perna    | 2020-09-10 |
+------+----------+------------+
8 rows in set (0.00 sec)

mysql> select address, number from python_batch;
+---------+--------+
| address | number |
+---------+--------+
| Kondhwa |    456 |
| pimpri  |    556 |
| nasik   |    956 |
| nasik   |    952 |
| jalgaon |    802 |
| jalana  |    662 |
| pune    |    762 |
| mumbai  |   1022 |
+---------+--------+
8 rows in set (0.00 sec)

mysql> select * from python_batch;
+------+----------+---------+------------+--------+
| s_n  | name     | address | DOA        | number |
+------+----------+---------+------------+--------+
|    1 | Priyanka | Kondhwa | 2021-05-20 |    456 |
|    2 | Priya    | pimpri  | 2021-06-20 |    556 |
|    7 | sanjana  | nasik   | 2021-07-20 |    956 |
|    5 | vaibhav  | nasik   | 2021-07-20 |    952 |
|   10 | harshada | jalgaon | 2021-08-20 |    802 |
```

```
|    13 | harshal  | jalana  | 2011-08-10 |     662 |
|    17 | bhushan  | pune    | 2018-08-10 |     762 |
|    23 | perna    | mumbai  | 2020-09-10 |    1022 |
+------+----------+---------+------------+--------+
8 rows in set (0.00 sec)

mysql> select * from python_batch limit 5;
+------+----------+---------+------------+--------+
| s_n  | name     | address | DOA        | number |
+------+----------+---------+------------+--------+
|    1 | Priyanka | Kondhwa | 2021-05-20 |     456 |
|    2 | Priya    | pimpri  | 2021-06-20 |     556 |
|    7 | sanjana  | nasik   | 2021-07-20 |     956 |
|    5 | vaibhav  | nasik   | 2021-07-20 |     952 |
|   10 | harshada | jalgaon | 2021-08-20 |     802 |
+------+----------+---------+------------+--------+
5 rows in set (0.00 sec)

mysql> select * from python_batch limit 7;
+------+----------+---------+------------+--------+
| s_n  | name     | address | DOA        | number |
+------+----------+---------+------------+--------+
|    1 | Priyanka | Kondhwa | 2021-05-20 |     456 |
|    2 | Priya    | pimpri  | 2021-06-20 |     556 |
|    7 | sanjana  | nasik   | 2021-07-20 |     956 |
|    5 | vaibhav  | nasik   | 2021-07-20 |     952 |
|   10 | harshada | jalgaon | 2021-08-20 |     802 |
|   13 | harshal  | jalana  | 2011-08-10 |     662 |
|   17 | bhushan  | pune    | 2018-08-10 |     762 |
+------+----------+---------+------------+--------+
7 rows in set (0.00 sec)

mysql> select * from python_batch \G;
*************************** 1. row ***************************
    s_n: 1
   name: Priyanka
address: Kondhwa
    DOA: 2021-05-20
 number: 456
*************************** 2. row ***************************
    s_n: 2
   name: Priya
address: pimpri
    DOA: 2021-06-20
 number: 556
*************************** 3. row ***************************
```

```
    s_n: 7
   name: sanjana
address: nasik
    DOA: 2021-07-20
 number: 956
************************** 4. row **************************
    s_n: 5
   name: vaibhav
address: nasik
    DOA: 2021-07-20
 number: 952
************************** 5. row **************************
    s_n: 10
   name: harshada
address: jalgaon
    DOA: 2021-08-20
 number: 802
************************** 6. row **************************
    s_n: 13
   name: harshal
address: jalana
    DOA: 2011-08-10
 number: 662
************************** 7. row **************************
    s_n: 17
   name: bhushan
address: pune
    DOA: 2018-08-10
 number: 762
************************** 8. row **************************
    s_n: 23
   name: perna
address: mumbai
    DOA: 2020-09-10
 number: 1022
8 rows in set (0.00 sec)

ERROR:
No query specified

mysql> select * from python_batch limit 5 \G;
************************** 1. row **************************
    s_n: 1
   name: Priyanka
address: Kondhwa
    DOA: 2021-05-20
```

```
 number: 456
*************************** 2. row ***************************
    s_n: 2
   name: Priya
address: pimpri
    DOA: 2021-06-20
 number: 556
*************************** 3. row ***************************
    s_n: 7
   name: sanjana
address: nasik
    DOA: 2021-07-20
 number: 956
*************************** 4. row ***************************
    s_n: 5
   name: vaibhav
address: nasik
    DOA: 2021-07-20
 number: 952
*************************** 5. row ***************************
    s_n: 10
   name: harshada
address: jalgaon
    DOA: 2021-08-20
 number: 802
5 rows in set (0.00 sec)

ERROR:
No query specified

mysql> select * from python_batch \G limit 5;
*************************** 1. row ***************************
    s_n: 1
   name: Priyanka
address: Kondhwa
    DOA: 2021-05-20
 number: 456
*************************** 2. row ***************************
    s_n: 2
   name: Priya
address: pimpri
    DOA: 2021-06-20
 number: 556
*************************** 3. row ***************************
    s_n: 7
   name: sanjana
```

```
address: nasik
   DOA: 2021-07-20
 number: 956
*********************** 4. row ***********************
   s_n: 5
  name: vaibhav
address: nasik
   DOA: 2021-07-20
 number: 952
*********************** 5. row ***********************
   s_n: 10
  name: harshada
address: jalgaon
   DOA: 2021-08-20
 number: 802
*********************** 6. row ***********************
   s_n: 13
  name: harshal
address: jalana
   DOA: 2011-08-10
 number: 662
*********************** 7. row ***********************
   s_n: 17
  name: bhushan
address: pune
   DOA: 2018-08-10
 number: 762
*********************** 8. row ***********************
   s_n: 23
  name: perna
address: mumbai
   DOA: 2020-09-10
 number: 1022
8 rows in set (0.00 sec)

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual
that corresponds to your MySQL server version for the right syntax to use
near 'limit 5' at line 1
mysql> select * from python_batch;
+------+----------+---------+------------+--------+
| s_n  | name     | address | DOA        | number |
+------+----------+---------+------------+--------+
|    1 | Priyanka | Kondhwa | 2021-05-20 |    456 |
|    2 | Priya    | pimpri  | 2021-06-20 |    556 |
|    7 | sanjana  | nasik   | 2021-07-20 |    956 |
|    5 | vaibhav  | nasik   | 2021-07-20 |    952 |
```

```
|    10 | harshada | jalgaon | 2021-08-20 |     802 |
|    13 | harshal  | jalana  | 2011-08-10 |     662 |
|    17 | bhushan  | pune    | 2018-08-10 |     762 |
|    23 | perna    | mumbai  | 2020-09-10 |    1022 |
+------+----------+---------+------------+--------+
8 rows in set (0.00 sec)

mysql> insert into python_batch values(15, 'namay', 'dhule', '2021-08-10',
523);
Query OK, 1 row affected (0.01 sec)

mysql> insert into python_batch values(27, 'om', 'raver', '2015-08-10',
583);
Query OK, 1 row affected (0.01 sec)

mysql> insert into python_batch values(37, 'mayur', 'goa', '2017-11-10',
1083);
Query OK, 1 row affected (0.01 sec)

mysql> insert into python_batch values(71, 'mohan', 'nagpur', '2013-11-10',
183);
Query OK, 1 row affected (0.01 sec)

mysql> select * from python_batch;
+------+----------+---------+------------+--------+
| s_n  | name     | address | DOA        | number |
+------+----------+---------+------------+--------+
|     1 | Priyanka | Kondhwa | 2021-05-20 |     456 |
|     2 | Priya    | pimpri  | 2021-06-20 |     556 |
|     7 | sanjana  | nasik   | 2021-07-20 |     956 |
|     5 | vaibhav  | nasik   | 2021-07-20 |     952 |
|    10 | harshada | jalgaon | 2021-08-20 |     802 |
|    13 | harshal  | jalana  | 2011-08-10 |     662 |
|    17 | bhushan  | pune    | 2018-08-10 |     762 |
|    23 | perna    | mumbai  | 2020-09-10 |    1022 |
|    15 | namay    | dhule   | 2021-08-10 |     523 |
|    27 | om       | raver   | 2015-08-10 |     583 |
|    37 | mayur    | goa     | 2017-11-10 |    1083 |
|    71 | mohan    | nagpur  | 2013-11-10 |     183 |
+------+----------+---------+------------+--------+
12 rows in set (0.00 sec)

mysql> select * from python_batch where address='kondhwa';
+------+----------+---------+------------+--------+
| s_n  | name     | address | DOA        | number |
+------+----------+---------+------------+--------+
```

```
|     1 | Priyanka | Kondhwa | 2021-05-20 |    456 |
+------+----------+---------+------------+--------+
1 row in set (0.00 sec)

mysql> select * from python_batch where DOA between '2021-07-01' and
'2021-10-02';
+------+----------+---------+------------+--------+
| s_n  | name     | address | DOA        | number |
+------+----------+---------+------------+--------+
|    7 | sanjana  | nasik   | 2021-07-20 |    956 |
|    5 | vaibhav  | nasik   | 2021-07-20 |    952 |
|   10 | harshada | jalgaon | 2021-08-20 |    802 |
|   15 | namay    | dhule   | 2021-08-10 |    523 |
+------+----------+---------+------------+--------+
4 rows in set (0.00 sec)

mysql> select * from python_batch where number between 500 and 1000;
+------+----------+---------+------------+--------+
| s_n  | name     | address | DOA        | number |
+------+----------+---------+------------+--------+
|    2 | Priya    | pimpri  | 2021-06-20 |    556 |
|    7 | sanjana  | nasik   | 2021-07-20 |    956 |
|    5 | vaibhav  | nasik   | 2021-07-20 |    952 |
|   10 | harshada | jalgaon | 2021-08-20 |    802 |
|   13 | harshal  | jalana  | 2011-08-10 |    662 |
|   17 | bhushan  | pune    | 2018-08-10 |    762 |
|   15 | namay    | dhule   | 2021-08-10 |    523 |
|   27 | om       | raver   | 2015-08-10 |    583 |
+------+----------+---------+------------+--------+
8 rows in set (0.00 sec)

mysql> desc python_batch;
+---------+--------------+------+-----+---------+-------+
| Field   | Type         | Null | Key | Default | Extra |
+---------+--------------+------+-----+---------+-------+
| s_n     | int          | YES  |     | NULL    |       |
| name    | varchar(255) | YES  |     | NULL    |       |
| address | varchar(255) | YES  |     | NULL    |       |
| DOA     | varchar(255) | YES  |     | NULL    |       |
| number  | int          | YES  |     | NULL    |       |
+---------+--------------+------+-----+---------+-------+
5 rows in set (0.01 sec)

mysql> select * from python_batch;
+------+----------+---------+------------+--------+
| s_n  | name     | address | DOA        | number |
```

```
+------+-----------+----------+------------+--------+
|    1 | Priyanka  | Kondhwa  | 2021-05-20 |    456 |
|    2 | Priya     | pimpri   | 2021-06-20 |    556 |
|    7 | sanjana   | nasik    | 2021-07-20 |    956 |
|    5 | vaibhav   | nasik    | 2021-07-20 |    952 |
|   10 | harshada  | jalgaon  | 2021-08-20 |    802 |
|   13 | harshal   | jalana   | 2011-08-10 |    662 |
|   17 | bhushan   | pune     | 2018-08-10 |    762 |
|   23 | perna     | mumbai   | 2020-09-10 |   1022 |
|   15 | namay     | dhule    | 2021-08-10 |    523 |
|   27 | om        | raver    | 2015-08-10 |    583 |
|   37 | mayur     | goa      | 2017-11-10 |   1083 |
|   71 | mohan     | nagpur   | 2013-11-10 |    183 |
+------+-----------+----------+------------+--------+
12 rows in set (0.00 sec)

mysql> select * from python_batch where name like 'h%';
+------+-----------+----------+------------+--------+
| s_n  | name      | address  | DOA        | number |
+------+-----------+----------+------------+--------+
|   10 | harshada  | jalgaon  | 2021-08-20 |    802 |
|   13 | harshal   | jalana   | 2011-08-10 |    662 |
+------+-----------+----------+------------+--------+
2 rows in set (0.00 sec)

mysql> select * from python_batch where name like 'v%';
+------+-----------+----------+------------+--------+
| s_n  | name      | address  | DOA        | number |
+------+-----------+----------+------------+--------+
|    5 | vaibhav   | nasik    | 2021-07-20 |    952 |
+------+-----------+----------+------------+--------+
1 row in set (0.00 sec)

mysql> select * from python_batch where name like 'p%';
+------+-----------+----------+------------+--------+
| s_n  | name      | address  | DOA        | number |
+------+-----------+----------+------------+--------+
|    1 | Priyanka  | Kondhwa  | 2021-05-20 |    456 |
|    2 | Priya     | pimpri   | 2021-06-20 |    556 |
|   23 | perna     | mumbai   | 2020-09-10 |   1022 |
+------+-----------+----------+------------+--------+
3 rows in set (0.00 sec)

mysql> select * from python_batch where name like 'p%', 'v%';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual
that corresponds to your MySQL server version for the right syntax to use
```

```
near ', 'v%'' at line 1
mysql> select * from python_batch;
+------+----------+----------+------------+--------+
| s_n  | name     | address  | DOA        | number |
+------+----------+----------+------------+--------+
|    1 | Priyanka | Kondhwa  | 2021-05-20 |    456 |
|    2 | Priya    | pimpri   | 2021-06-20 |    556 |
|    7 | sanjana  | nasik    | 2021-07-20 |    956 |
|    5 | vaibhav  | nasik    | 2021-07-20 |    952 |
|   10 | harshada | jalgaon  | 2021-08-20 |    802 |
|   13 | harshal  | jalana   | 2011-08-10 |    662 |
|   17 | bhushan  | pune     | 2018-08-10 |    762 |
|   23 | perna    | mumbai   | 2020-09-10 |   1022 |
|   15 | namay    | dhule    | 2021-08-10 |    523 |
|   27 | om       | raver    | 2015-08-10 |    583 |
|   37 | mayur    | goa      | 2017-11-10 |   1083 |
|   71 | mohan    | nagpur   | 2013-11-10 |    183 |
+------+----------+----------+------------+--------+
12 rows in set (0.00 sec)

mysql> select * from python_batch where address= 'kondhwa' and DOA between
'2021-05-01' and '2021-07-31';
+------+----------+----------+------------+--------+
| s_n  | name     | address  | DOA        | number |
+------+----------+----------+------------+--------+
|    1 | Priyanka | Kondhwa  | 2021-05-20 |    456 |
+------+----------+----------+------------+--------+
1 row in set (0.00 sec)

mysql> select * from python_batch where address= 'kondhwa' or  DOA between
'2021-05-01' and '2021-07-31';
+------+----------+----------+------------+--------+
| s_n  | name     | address  | DOA        | number |
+------+----------+----------+------------+--------+
|    1 | Priyanka | Kondhwa  | 2021-05-20 |    456 |
|    2 | Priya    | pimpri   | 2021-06-20 |    556 |
|    7 | sanjana  | nasik    | 2021-07-20 |    956 |
|    5 | vaibhav  | nasik    | 2021-07-20 |    952 |
+------+----------+----------+------------+--------+
4 rows in set (0.00 sec)

mysql> select * from python_batch;
+------+----------+----------+------------+--------+
| s_n  | name     | address  | DOA        | number |
+------+----------+----------+------------+--------+
|    1 | Priyanka | Kondhwa  | 2021-05-20 |    456 |
```

```
|     2 | Priya    | pimpri  | 2021-06-20 |    556 |
|     7 | sanjana  | nasik   | 2021-07-20 |    956 |
|     5 | vaibhav  | nasik   | 2021-07-20 |    952 |
|    10 | harshada | jalgaon | 2021-08-20 |    802 |
|    13 | harshal  | jalana  | 2011-08-10 |    662 |
|    17 | bhushan  | pune    | 2018-08-10 |    762 |
|    23 | perna    | mumbai  | 2020-09-10 |   1022 |
|    15 | namay    | dhule   | 2021-08-10 |    523 |
|    27 | om       | raver   | 2015-08-10 |    583 |
|    37 | mayur    | goa     | 2017-11-10 |   1083 |
|    71 | mohan    | nagpur  | 2013-11-10 |    183 |
+-------+----------+---------+------------+--------+
12 rows in set (0.00 sec)

mysql> select s_n, name,  address from python_batch group by name, s_n,
address;
+-------+----------+---------+
| s_n   | name     | address |
+-------+----------+---------+
|     1 | Priyanka | Kondhwa |
|     2 | Priya    | pimpri  |
|     7 | sanjana  | nasik   |
|     5 | vaibhav  | nasik   |
|    10 | harshada | jalgaon |
|    13 | harshal  | jalana  |
|    17 | bhushan  | pune    |
|    23 | perna    | mumbai  |
|    15 | namay    | dhule   |
|    27 | om       | raver   |
|    37 | mayur    | goa     |
|    71 | mohan    | nagpur  |
+-------+----------+---------+
12 rows in set (0.00 sec)

mysql> select s_n, name, address, DOA, number from python_batch group by
name, s_n, address, DOA, number;
+-------+----------+---------+------------+--------+
| s_n   | name     | address | DOA        | number |
+-------+----------+---------+------------+--------+
|     1 | Priyanka | Kondhwa | 2021-05-20 |    456 |
|     2 | Priya    | pimpri  | 2021-06-20 |    556 |
|     7 | sanjana  | nasik   | 2021-07-20 |    956 |
|     5 | vaibhav  | nasik   | 2021-07-20 |    952 |
|    10 | harshada | jalgaon | 2021-08-20 |    802 |
|    13 | harshal  | jalana  | 2011-08-10 |    662 |
|    17 | bhushan  | pune    | 2018-08-10 |    762 |
```

```
|    23 | perna     | mumbai  | 2020-09-10 |   1022 |
|    15 | namay     | dhule   | 2021-08-10 |    523 |
|    27 | om        | raver   | 2015-08-10 |    583 |
|    37 | mayur     | goa     | 2017-11-10 |   1083 |
|    71 | mohan     | nagpur  | 2013-11-10 |    183 |
+------+-----------+---------+------------+--------+
12 rows in set (0.00 sec)

mysql> select name,s_n, address, DOA, number from python_batch group by
name, s_n, address, DOA, number;
+----------+------+---------+------------+--------+
| name     | s_n  | address | DOA        | number |
+----------+------+---------+------------+--------+
| Priyanka |    1 | Kondhwa | 2021-05-20 |    456 |
| Priya    |    2 | pimpri  | 2021-06-20 |    556 |
| sanjana  |    7 | nasik   | 2021-07-20 |    956 |
| vaibhav  |    5 | nasik   | 2021-07-20 |    952 |
| harshada |   10 | jalgaon | 2021-08-20 |    802 |
| harshal  |   13 | jalana  | 2011-08-10 |    662 |
| bhushan  |   17 | pune    | 2018-08-10 |    762 |
| perna    |   23 | mumbai  | 2020-09-10 |   1022 |
| namay    |   15 | dhule   | 2021-08-10 |    523 |
| om       |   27 | raver   | 2015-08-10 |    583 |
| mayur    |   37 | goa     | 2017-11-10 |   1083 |
| mohan    |   71 | nagpur  | 2013-11-10 |    183 |
+----------+------+---------+------------+--------+
12 rows in set (0.00 sec)

mysql> select name,s_n, address, DOA, number from python_batch group by
s_n, name, address, DOA, number;
+----------+------+---------+------------+--------+
| name     | s_n  | address | DOA        | number |
+----------+------+---------+------------+--------+
| Priyanka |    1 | Kondhwa | 2021-05-20 |    456 |
| Priya    |    2 | pimpri  | 2021-06-20 |    556 |
| sanjana  |    7 | nasik   | 2021-07-20 |    956 |
| vaibhav  |    5 | nasik   | 2021-07-20 |    952 |
| harshada |   10 | jalgaon | 2021-08-20 |    802 |
| harshal  |   13 | jalana  | 2011-08-10 |    662 |
| bhushan  |   17 | pune    | 2018-08-10 |    762 |
| perna    |   23 | mumbai  | 2020-09-10 |   1022 |
| namay    |   15 | dhule   | 2021-08-10 |    523 |
| om       |   27 | raver   | 2015-08-10 |    583 |
| mayur    |   37 | goa     | 2017-11-10 |   1083 |
| mohan    |   71 | nagpur  | 2013-11-10 |    183 |
+----------+------+---------+------------+--------+
```

12 rows in set (0.00 sec)

```
mysql> select name,s_n, address, DOA, number from python_batch group by
address,s_n, name, DOA, number;
+-----------+------+---------+------------+--------+
| name      | s_n  | address | DOA        | number |
+-----------+------+---------+------------+--------+
| Priyanka  |    1 | Kondhwa | 2021-05-20 |    456 |
| Priya     |    2 | pimpri  | 2021-06-20 |    556 |
| sanjana   |    7 | nasik   | 2021-07-20 |    956 |
| vaibhav   |    5 | nasik   | 2021-07-20 |    952 |
| harshada  |   10 | jalgaon | 2021-08-20 |    802 |
| harshal   |   13 | jalana  | 2011-08-10 |    662 |
| bhushan   |   17 | pune    | 2018-08-10 |    762 |
| perna     |   23 | mumbai  | 2020-09-10 |   1022 |
| namay     |   15 | dhule   | 2021-08-10 |    523 |
| om        |   27 | raver   | 2015-08-10 |    583 |
| mayur     |   37 | goa     | 2017-11-10 |   1083 |
| mohan     |   71 | nagpur  | 2013-11-10 |    183 |
+-----------+------+---------+------------+--------+
12 rows in set (0.00 sec)

mysql> select * from python_batch;
+------+----------+---------+------------+--------+
| s_n  | name     | address | DOA        | number |
+------+----------+---------+------------+--------+
|    1 | Priyanka | Kondhwa | 2021-05-20 |    456 |
|    2 | Priya    | pimpri  | 2021-06-20 |    556 |
|    7 | sanjana  | nasik   | 2021-07-20 |    956 |
|    5 | vaibhav  | nasik   | 2021-07-20 |    952 |
|   10 | harshada | jalgaon | 2021-08-20 |    802 |
|   13 | harshal  | jalana  | 2011-08-10 |    662 |
|   17 | bhushan  | pune    | 2018-08-10 |    762 |
|   23 | perna    | mumbai  | 2020-09-10 |   1022 |
|   15 | namay    | dhule   | 2021-08-10 |    523 |
|   27 | om       | raver   | 2015-08-10 |    583 |
|   37 | mayur    | goa     | 2017-11-10 |   1083 |
|   71 | mohan    | nagpur  | 2013-11-10 |    183 |
+------+----------+---------+------------+--------+
12 rows in set (0.00 sec)

mysql> select s_n, name, address from python_batch group by name, s_n,
address;
+------+----------+---------+
| s_n  | name     | address |
+------+----------+---------+
```

```
|      1 | Priyanka | Kondhwa |
|      2 | Priya    | pimpri  |
|      7 | sanjana  | nasik   |
|      5 | vaibhav  | nasik   |
|     10 | harshada | jalgaon |
|     13 | harshal  | jalana  |
|     17 | bhushan  | pune    |
|     23 | perna    | mumbai  |
|     15 | namay    | dhule   |
|     27 | om       | raver   |
|     37 | mayur    | goa     |
|     71 | mohan    | nagpur  |
+------+----------+---------+
12 rows in set (0.00 sec)

mysql> sql_path
    ->
    ->
    -> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual
that corresponds to your MySQL server version for the right syntax to use
near 'sql_path' at line 1
mysql> select * from python_batch;
+------+----------+---------+------------+--------+
| s_n  | name     | address | DOA        | number |
+------+----------+---------+------------+--------+
|    1 | Priyanka | Kondhwa | 2021-05-20 |    456 |
|    2 | Priya    | pimpri  | 2021-06-20 |    556 |
|    7 | sanjana  | nasik   | 2021-07-20 |    956 |
|    5 | vaibhav  | nasik   | 2021-07-20 |    952 |
|   10 | harshada | jalgaon | 2021-08-20 |    802 |
|   13 | harshal  | jalana  | 2011-08-10 |    662 |
|   17 | bhushan  | pune    | 2018-08-10 |    762 |
|   23 | perna    | mumbai  | 2020-09-10 |   1022 |
|   15 | namay    | dhule   | 2021-08-10 |    523 |
|   27 | om       | raver   | 2015-08-10 |    583 |
|   37 | mayur    | goa     | 2017-11-10 |   1083 |
|   71 | mohan    | nagpur  | 2013-11-10 |    183 |
+------+----------+---------+------------+--------+
12 rows in set (0.00 sec)

mysql> select s_n, name, address, DOA from python_batch group by name,
address, DOA order by DOA asc;
+------+----------+---------+------------+
| s_n  | name     | address | DOA        |
+------+----------+---------+------------+
```

```
|    13 | harshal  | jalana  | 2011-08-10 |
|    71 | mohan    | nagpur  | 2013-11-10 |
|    27 | om       | raver   | 2015-08-10 |
|    37 | mayur    | goa     | 2017-11-10 |
|    17 | bhushan  | pune    | 2018-08-10 |
|    23 | perna    | mumbai  | 2020-09-10 |
|     1 | Priyanka | Kondhwa | 2021-05-20 |
|     2 | Priya    | pimpri  | 2021-06-20 |
|     7 | sanjana  | nasik   | 2021-07-20 |
|     5 | vaibhav  | nasik   | 2021-07-20 |
|    15 | namay    | dhule   | 2021-08-10 |
|    10 | harshada | jalgaon | 2021-08-20 |
+------+----------+---------+------------+
12 rows in set (0.00 sec)

mysql> select name, address, DOA from python_batch group by name, address,
DOA order by DOA asc;
+----------+---------+------------+
| name     | address | DOA        |
+----------+---------+------------+
| harshal  | jalana  | 2011-08-10 |
| mohan    | nagpur  | 2013-11-10 |
| om       | raver   | 2015-08-10 |
| mayur    | goa     | 2017-11-10 |
| bhushan  | pune    | 2018-08-10 |
| perna    | mumbai  | 2020-09-10 |
| Priyanka | Kondhwa | 2021-05-20 |
| Priya    | pimpri  | 2021-06-20 |
| sanjana  | nasik   | 2021-07-20 |
| vaibhav  | nasik   | 2021-07-20 |
| namay    | dhule   | 2021-08-10 |
| harshada | jalgaon | 2021-08-20 |
+----------+---------+------------+
12 rows in set (0.00 sec)

mysql> select name, address, DOA from python_batch group by name, address,
DOA order by DOA desc;
+----------+---------+------------+
| name     | address | DOA        |
+----------+---------+------------+
| harshada | jalgaon | 2021-08-20 |
| namay    | dhule   | 2021-08-10 |
| sanjana  | nasik   | 2021-07-20 |
| vaibhav  | nasik   | 2021-07-20 |
| Priya    | pimpri  | 2021-06-20 |
| Priyanka | Kondhwa | 2021-05-20 |
```

```
| perna    | mumbai  | 2020-09-10 |
| bhushan  | pune    | 2018-08-10 |
| mayur    | goa     | 2017-11-10 |
| om       | raver   | 2015-08-10 |
| mohan    | nagpur  | 2013-11-10 |
| harshal  | jalana  | 2011-08-10 |
+----------+---------+------------+
12 rows in set (0.00 sec)

mysql> select * from python_batch;
+------+----------+---------+------------+--------+
| s_n  | name     | address | DOA        | number |
+------+----------+---------+------------+--------+
|    1 | Priyanka | Kondhwa | 2021-05-20 |    456 |
|    2 | Priya    | pimpri  | 2021-06-20 |    556 |
|    7 | sanjana  | nasik   | 2021-07-20 |    956 |
|    5 | vaibhav  | nasik   | 2021-07-20 |    952 |
|   10 | harshada | jalgaon | 2021-08-20 |    802 |
|   13 | harshal  | jalana  | 2011-08-10 |    662 |
|   17 | bhushan  | pune    | 2018-08-10 |    762 |
|   23 | perna    | mumbai  | 2020-09-10 |   1022 |
|   15 | namay    | dhule   | 2021-08-10 |    523 |
|   27 | om       | raver   | 2015-08-10 |    583 |
|   37 | mayur    | goa     | 2017-11-10 |   1083 |
|   71 | mohan    | nagpur  | 2013-11-10 |    183 |
+------+----------+---------+------------+--------+
12 rows in set (0.00 sec)

mysql> select * from python_batch order by name asc;
+------+----------+---------+------------+--------+
| s_n  | name     | address | DOA        | number |
+------+----------+---------+------------+--------+
|   17 | bhushan  | pune    | 2018-08-10 |    762 |
|   10 | harshada | jalgaon | 2021-08-20 |    802 |
|   13 | harshal  | jalana  | 2011-08-10 |    662 |
|   37 | mayur    | goa     | 2017-11-10 |   1083 |
|   71 | mohan    | nagpur  | 2013-11-10 |    183 |
|   15 | namay    | dhule   | 2021-08-10 |    523 |
|   27 | om       | raver   | 2015-08-10 |    583 |
|   23 | perna    | mumbai  | 2020-09-10 |   1022 |
|    2 | Priya    | pimpri  | 2021-06-20 |    556 |
|    1 | Priyanka | Kondhwa | 2021-05-20 |    456 |
|    7 | sanjana  | nasik   | 2021-07-20 |    956 |
|    5 | vaibhav  | nasik   | 2021-07-20 |    952 |
+------+----------+---------+------------+--------+
12 rows in set (0.00 sec)
```

```
mysql> select * from python_batch order by name desc;
+------+----------+----------+------------+--------+
| s_n  | name     | address  | DOA        | number |
+------+----------+----------+------------+--------+
|    5 | vaibhav  | nasik    | 2021-07-20 |    952 |
|    7 | sanjana  | nasik    | 2021-07-20 |    956 |
|    1 | Priyanka | Kondhwa  | 2021-05-20 |    456 |
|    2 | Priya    | pimpri   | 2021-06-20 |    556 |
|   23 | perna    | mumbai   | 2020-09-10 |   1022 |
|   27 | om       | raver    | 2015-08-10 |    583 |
|   15 | namay    | dhule    | 2021-08-10 |    523 |
|   71 | mohan    | nagpur   | 2013-11-10 |    183 |
|   37 | mayur    | goa      | 2017-11-10 |   1083 |
|   13 | harshal  | jalana   | 2011-08-10 |    662 |
|   10 | harshada | jalgaon  | 2021-08-20 |    802 |
|   17 | bhushan  | pune     | 2018-08-10 |    762 |
+------+----------+----------+------------+--------+
12 rows in set (0.00 sec)

mysql> select * from python_batch order by address desc;
+------+----------+----------+------------+--------+
| s_n  | name     | address  | DOA        | number |
+------+----------+----------+------------+--------+
|   27 | om       | raver    | 2015-08-10 |    583 |
|   17 | bhushan  | pune     | 2018-08-10 |    762 |
|    2 | Priya    | pimpri   | 2021-06-20 |    556 |
|    7 | sanjana  | nasik    | 2021-07-20 |    956 |
|    5 | vaibhav  | nasik    | 2021-07-20 |    952 |
|   71 | mohan    | nagpur   | 2013-11-10 |    183 |
|   23 | perna    | mumbai   | 2020-09-10 |   1022 |
|    1 | Priyanka | Kondhwa  | 2021-05-20 |    456 |
|   10 | harshada | jalgaon  | 2021-08-20 |    802 |
|   13 | harshal  | jalana   | 2011-08-10 |    662 |
|   37 | mayur    | goa      | 2017-11-10 |   1083 |
|   15 | namay    | dhule    | 2021-08-10 |    523 |
+------+----------+----------+------------+--------+
12 rows in set (0.00 sec)

mysql> select * from python_batch order by address asc;
+------+----------+----------+------------+--------+
| s_n  | name     | address  | DOA        | number |
+------+----------+----------+------------+--------+
|   15 | namay    | dhule    | 2021-08-10 |    523 |
|   37 | mayur    | goa      | 2017-11-10 |   1083 |
|   13 | harshal  | jalana   | 2011-08-10 |    662 |
```

```
|     10 | harshada | jalgaon | 2021-08-20 |      802 |
|      1 | Priyanka | Kondhwa | 2021-05-20 |      456 |
|     23 | perna    | mumbai  | 2020-09-10 |     1022 |
|     71 | mohan    | nagpur  | 2013-11-10 |      183 |
|      7 | sanjana  | nasik   | 2021-07-20 |      956 |
|      5 | vaibhav  | nasik   | 2021-07-20 |      952 |
|      2 | Priya    | pimpri  | 2021-06-20 |      556 |
|     17 | bhushan  | pune    | 2018-08-10 |      762 |
|     27 | om       | raver   | 2015-08-10 |      583 |
+------+----------+---------+-----------+--------+
12 rows in set (0.00 sec)

mysql> select s_n, name, address from python_batch group by name, s_n,
address;
+------+----------+---------+
| s_n  | name     | address |
+------+----------+---------+
|    1 | Priyanka | Kondhwa |
|    2 | Priya    | pimpri  |
|    7 | sanjana  | nasik   |
|    5 | vaibhav  | nasik   |
|   10 | harshada | jalgaon |
|   13 | harshal  | jalana  |
|   17 | bhushan  | pune    |
|   23 | perna    | mumbai  |
|   15 | namay    | dhule   |
|   27 | om       | raver   |
|   37 | mayur    | goa     |
|   71 | mohan    | nagpur  |
+------+----------+---------+
12 rows in set (0.00 sec)

mysql>
```


   DATE : 03/10/21

   ### S P E C I F I E D   D A T A   S E L E C T I O N   on   C
O L U M N ###

mysql> show databases;

```
+--------------------+
| Database           |
+--------------------+
| cscorner           |
| information_schema |
| mysql              |
| performance_schema |
| python_batch       |
| sql_airport        |
| sql_batch          |
| sql_bus            |
| sql_delhi          |
| sql_guitar         |
| sql_info           |
| sql_lazwer         |
| sql_lotus          |
| sql_mi             |
| sql_mzster         |
| sql_nr             |
| sql_nwler          |
| sql_paltan         |
| sql_path           |
| sql_pen            |
| sql_pride          |
| sql_robotics       |
| sql_runway         |
| sql_school         |
| sql_weekend        |
| sql_wzlord         |
| sys                |
+--------------------+
27 rows in set (0.01 sec)

mysql> use python_batch;
Database changed
mysql> show tables;
+------------------------+
| Tables_in_python_batch |
+------------------------+
| python_batch           |
+------------------------+
1 row in set (0.01 sec)

mysql> select * from python_batch;
+------+----------+-----------+-------------+--------+----------------
------+
```

s_n	name	address	DOA	number	email_id
1	Priyanka	Kondhwa	2021-05-20	456	NULL
2	Priya	pimpri	2021-06-20	556	NULL
7	sanjana	nasik	2021-07-20	956	NULL
5	vaibhav	nasik	2021-07-20	952	vaibhavpatil@gmail.com
13	harshal	jalana	2011-08-10	662	NULL
17	bhushan	pune	2018-08-10	762	NULL
23	perna	mumbai	2020-09-10	1022	NULL
15	namay	dhule	2021-08-10	523	NULL
27	om	raver	2015-08-10	583	NULL
37	mayur	goa	2017-11-10	1083	NULL
71	mohan	nagpur	2013-11-10	183	NULL
200	tanushka	banglore	2021-05-2020	100	NULL
150	tanisha	indoor	2021-07-2020	500	NULL
1200	tanay	aurangabad	2021-07-10	466	NULL
120	vinay	osmanbad	2191-07-10	476	NULL
950	amar	sangli	202-07-30	981	NULL
950	amar	sangli	202-07-30	981	NULL
90	rakesh	lahore	2020-08-12	666	NULL
70	vaishnavi	thane	2019-09-12	686	NULL
40	ritu	beed	2021-08-10	498	NULL
577	rakul	bomaby	2021-09-11	421	NULL

```
| 1007 | chetana   | jalgaon   | 2021-12-11   |     42 | NULL
     |
|  107 | vaibhavi  | latur     | 2021-07-11   |    414 | NULL
     |
|  187 | shekhar   | nandurbar | 2021-09-11   |    812 | NULL
     |
+------+-----------+-----------+--------------+--------+----------------
------+
24 rows in set (0.00 sec)

        # COPY TABLES:
mysql> create table python_batch1 as select * from python_batch;
Query OK, 24 rows affected (0.07 sec)
Records: 24  Duplicates: 0  Warnings: 0

mysql> select * from python_batch1;
+------+-----------+-----------+--------------+--------+----------------
------+
| s_n  | name      | address   | DOA          | number | email_id
     |
+------+-----------+-----------+--------------+--------+----------------
------+
|    1 | Priyanka  | Kondhwa   | 2021-05-20   |    456 | NULL
     |
|    2 | Priya     | pimpri    | 2021-06-20   |    556 | NULL
     |
|    7 | sanjana   | nasik     | 2021-07-20   |    956 | NULL
     |
|    5 | vaibhav   | nasik     | 2021-07-20   |    952 |
vaibhavpatil@gmail.com |
|   13 | harshal   | jalana    | 2011-08-10   |    662 | NULL
     |
|   17 | bhushan   | pune      | 2018-08-10   |    762 | NULL
     |
|   23 | perna     | mumbai    | 2020-09-10   |   1022 | NULL
     |
|   15 | namay     | dhule     | 2021-08-10   |    523 | NULL
     |
|   27 | om        | raver     | 2015-08-10   |    583 | NULL
     |
|   37 | mayur     | goa       | 2017-11-10   |   1083 | NULL
     |
|   71 | mohan     | nagpur    | 2013-11-10   |    183 | NULL
     |
|  200 | tanushka  | banglore  | 2021-05-2020 |    100 | NULL
     |
```

```
|   150 | tanisha   | indoor     | 2021-07-2020 |    500 | NULL
       |
|  1200 | tanay     | aurangabad | 2021-07-10   |    466 | NULL
       |
|   120 | vinay     | osmanbad   | 2191-07-10   |    476 | NULL
       |
|   950 | amar      | sangli     | 202-07-30    |    981 | NULL
       |
|   950 | amar      | sangli     | 202-07-30    |    981 | NULL
       |
|    90 | rakesh    | lahore     | 2020-08-12   |    666 | NULL
       |
|    70 | vaishnavi | thane      | 2019-09-12   |    686 | NULL
       |
|    40 | ritu      | beed       | 2021-08-10   |    498 | NULL
       |
|   577 | rakul     | bomaby     | 2021-09-11   |    421 | NULL
       |
|  1007 | chetana   | jalgaon    | 2021-12-11   |     42 | NULL
       |
|   107 | vaibhavi  | latur      | 2021-07-11   |    414 | NULL
       |
|   187 | shekhar   | nandurbar  | 2021-09-11   |    812 | NULL
       |
+------+-----------+-----------+-------------+--------+----------------
------+
24 rows in set (0.00 sec)

mysql> alter table python_batch1 add fax_n int(10);
Query OK, 0 rows affected, 1 warning (0.03 sec)
Records: 0  Duplicates: 0  Warnings: 1

mysql> select * from python_batch1;
+------+-----------+-----------+-------------+--------+----------------
------+-------+
| s_n  | name      | address   | DOA         | number | email_id
      | fax_n |
+------+-----------+-----------+-------------+--------+----------------
------+-------+
|    1 | Priyanka  | Kondhwa   | 2021-05-20  |    456 | NULL
      |  NULL |
|    2 | Priya     | pimpri    | 2021-06-20  |    556 | NULL
      |  NULL |
|    7 | sanjana   | nasik     | 2021-07-20  |    956 | NULL
      |  NULL |
|    5 | vaibhav   | nasik     | 2021-07-20  |    952 |
```

```
vaibhavpatil@gmail.com |  NULL |
|    13 | harshal   | jalana     | 2011-08-10   |    662 | NULL
     |   NULL |
|    17 | bhushan   | pune       | 2018-08-10   |    762 | NULL
     |   NULL |
|    23 | perna     | mumbai     | 2020-09-10   |   1022 | NULL
     |   NULL |
|    15 | namay     | dhule      | 2021-08-10   |    523 | NULL
     |   NULL |
|    27 | om        | raver      | 2015-08-10   |    583 | NULL
     |   NULL |
|    37 | mayur     | goa        | 2017-11-10   |   1083 | NULL
     |   NULL |
|    71 | mohan     | nagpur     | 2013-11-10   |    183 | NULL
     |   NULL |
|   200 | tanushka  | banglore   | 2021-05-2020 |    100 | NULL
     |   NULL |
|   150 | tanisha   | indoor     | 2021-07-2020 |    500 | NULL
     |   NULL |
|  1200 | tanay     | aurangabad | 2021-07-10   |    466 | NULL
     |   NULL |
|   120 | vinay     | osmanbad   | 2191-07-10   |    476 | NULL
     |   NULL |
|   950 | amar      | sangli     | 202-07-30    |    981 | NULL
     |   NULL |
|   950 | amar      | sangli     | 202-07-30    |    981 | NULL
     |   NULL |
|    90 | rakesh    | lahore     | 2020-08-12   |    666 | NULL
     |   NULL |
|    70 | vaishnavi | thane      | 2019-09-12   |    686 | NULL
     |   NULL |
|    40 | ritu      | beed       | 2021-08-10   |    498 | NULL
     |   NULL |
|   577 | rakul     | bomaby     | 2021-09-11   |    421 | NULL
     |   NULL |
|  1007 | chetana   | jalgaon    | 2021-12-11   |     42 | NULL
     |   NULL |
|   107 | vaibhavi  | latur      | 2021-07-11   |    414 | NULL
     |   NULL |
|   187 | shekhar   | nandurbar  | 2021-09-11   |    812 | NULL
     |   NULL |
+------+----------+-----------+-------------+--------+-----------------
------+-------+
24 rows in set (0.00 sec)

mysql> alter table python_batch1 add phone_n int(10) after name;
```

```
Query OK, 0 rows affected, 1 warning (0.08 sec)
Records: 0  Duplicates: 0  Warnings: 1

mysql> select * from python_batch1;
+------+----------+---------+-----------+--------------+--------+-------
----------------+-------+
| s_n  | name     | phone_n | address   | DOA          | number |
email_id              | fax_n |
+------+----------+---------+-----------+--------------+--------+-------
----------------+-------+
|    1 | Priyanka |    NULL | Kondhwa   | 2021-05-20   |    456 | NULL
                | NULL  |
|    2 | Priya    |    NULL | pimpri    | 2021-06-20   |    556 | NULL
                | NULL  |
|    7 | sanjana  |    NULL | nasik     | 2021-07-20   |    956 | NULL
                | NULL  |
|    5 | vaibhav  |    NULL | nasik     | 2021-07-20   |    952 |
vaibhavpatil@gmail.com |   NULL  |
|   13 | harshal  |    NULL | jalana    | 2011-08-10   |    662 | NULL
                | NULL  |
|   17 | bhushan  |    NULL | pune      | 2018-08-10   |    762 | NULL
                | NULL  |
|   23 | perna    |    NULL | mumbai    | 2020-09-10   |   1022 | NULL
                | NULL  |
|   15 | namay    |    NULL | dhule     | 2021-08-10   |    523 | NULL
                | NULL  |
|   27 | om       |    NULL | raver     | 2015-08-10   |    583 | NULL
                | NULL  |
|   37 | mayur    |    NULL | goa       | 2017-11-10   |   1083 | NULL
                | NULL  |
|   71 | mohan    |    NULL | nagpur    | 2013-11-10   |    183 | NULL
                | NULL  |
|  200 | tanushka |    NULL | banglore  | 2021-05-2020 |    100 | NULL
                | NULL  |
|  150 | tanisha  |    NULL | indoor    | 2021-07-2020 |    500 | NULL
                | NULL  |
| 1200 | tanay    |    NULL | aurangabad| 2021-07-10   |    466 | NULL
                | NULL  |
|  120 | vinay    |    NULL | osmanbad  | 2191-07-10   |    476 | NULL
                | NULL  |
|  950 | amar     |    NULL | sangli    | 202-07-30    |    981 | NULL
                | NULL  |
|  950 | amar     |    NULL | sangli    | 202-07-30    |    981 | NULL
                | NULL  |
|   90 | rakesh   |    NULL | lahore    | 2020-08-12   |    666 | NULL
                | NULL  |
```

```
|   70 | vaishnavi |    NULL | thane      | 2019-09-12   |    686 | NULL
                | NULL |
|   40 | ritu      |    NULL | beed       | 2021-08-10   |    498 | NULL
                | NULL |
|  577 | rakul     |    NULL | bomaby     | 2021-09-11   |    421 | NULL
                | NULL |
| 1007 | chetana   |    NULL | jalgaon    | 2021-12-11   |     42 | NULL
                | NULL |
|  107 | vaibhavi  |    NULL | latur      | 2021-07-11   |    414 | NULL
                | NULL |
|  187 | shekhar   |    NULL | nandurbar  | 2021-09-11   |    812 | NULL
                | NULL |
+------+-----------+---------+------------+--------------+--------+--------
----------------+-------+
24 rows in set (0.00 sec)

mysql> alter table python_batch1 add roll_n int(10) first;
Query OK, 0 rows affected, 1 warning (0.07 sec)
Records: 0  Duplicates: 0  Warnings: 1

mysql> select * from python_batch1;
+--------+------+-----------+---------+-----------+--------------+--------
+----------------------+-------+
| roll_n | s_n  | name      | phone_n | address   | DOA          | number
| email_id             | fax_n |
+--------+------+-----------+---------+-----------+--------------+--------
+----------------------+-------+
|   NULL |    1 | Priyanka  |    NULL | Kondhwa   | 2021-05-20   |    456
| NULL                 | NULL |
|   NULL |    2 | Priya     |    NULL | pimpri    | 2021-06-20   |    556
| NULL                 | NULL |
|   NULL |    7 | sanjana   |    NULL | nasik     | 2021-07-20   |    956
| NULL                 | NULL |
|   NULL |    5 | vaibhav   |    NULL | nasik     | 2021-07-20   |    952
| vaibhavpatil@gmail.com |  NULL |
|   NULL |   13 | harshal   |    NULL | jalana    | 2011-08-10   |    662
| NULL                 | NULL |
|   NULL |   17 | bhushan   |    NULL | pune      | 2018-08-10   |    762
| NULL                 | NULL |
|   NULL |   23 | perna     |    NULL | mumbai    | 2020-09-10   |   1022
| NULL                 | NULL |
|   NULL |   15 | namay     |    NULL | dhule     | 2021-08-10   |    523
| NULL                 | NULL |
|   NULL |   27 | om        |    NULL | raver     | 2015-08-10   |    583
| NULL                 | NULL |
|   NULL |   37 | mayur     |    NULL | goa       | 2017-11-10   |   1083
```

NULL			NULL					
NULL	71	mohan	NULL	nagpur	2013-11-10	183	NULL	NULL
NULL	200	tanushka	NULL	banglore	2021-05-2020	100	NULL	NULL
NULL	150	tanisha	NULL	indoor	2021-07-2020	500	NULL	NULL
NULL	1200	tanay	NULL	aurangabad	2021-07-10	466	NULL	NULL
NULL	120	vinay	NULL	osmanbad	2191-07-10	476	NULL	NULL
NULL	950	amar	NULL	sangli	202-07-30	981	NULL	NULL
NULL	950	amar	NULL	sangli	202-07-30	981	NULL	NULL
NULL	90	rakesh	NULL	lahore	2020-08-12	666	NULL	NULL
NULL	70	vaishnavi	NULL	thane	2019-09-12	686	NULL	NULL
NULL	40	ritu	NULL	beed	2021-08-10	498	NULL	NULL
NULL	577	rakul	NULL	bomaby	2021-09-11	421	NULL	NULL
NULL	1007	chetana	NULL	jalgaon	2021-12-11	42	NULL	NULL
NULL	107	vaibhavi	NULL	latur	2021-07-11	414	NULL	NULL
NULL	187	shekhar	NULL	nandurbar	2021-09-11	812	NULL	NULL

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

mysql> alter table python_batch1 drop column roll_n;
Query OK, 0 rows affected (0.08 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> alter table python_batch1 drop column phone_n;
Query OK, 0 rows affected (0.08 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> alter table python_batch1 drop column fax_n;
Query OK, 0 rows affected (0.08 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> select * from python_batch1;
```

s_n	name	address	DOA	number	email_id
1	Priyanka	Kondhwa	2021-05-20	456	NULL
2	Priya	pimpri	2021-06-20	556	NULL
7	sanjana	nasik	2021-07-20	956	NULL
5	vaibhav	nasik	2021-07-20	952	vaibhavpatil@gmail.com
13	harshal	jalana	2011-08-10	662	NULL
17	bhushan	pune	2018-08-10	762	NULL
23	perna	mumbai	2020-09-10	1022	NULL
15	namay	dhule	2021-08-10	523	NULL
27	om	raver	2015-08-10	583	NULL
37	mayur	goa	2017-11-10	1083	NULL
71	mohan	nagpur	2013-11-10	183	NULL
200	tanushka	banglore	2021-05-2020	100	NULL
150	tanisha	indoor	2021-07-2020	500	NULL
1200	tanay	aurangabad	2021-07-10	466	NULL
120	vinay	osmanbad	2191-07-10	476	NULL
950	amar	sangli	202-07-30	981	NULL
950	amar	sangli	202-07-30	981	NULL
90	rakesh	lahore	2020-08-12	666	NULL
70	vaishnavi	thane	2019-09-12	686	NULL
40	ritu	beed	2021-08-10	498	NULL

```
|  577 | rakul     | bomaby      | 2021-09-11  |    421 | NULL
      |
| 1007 | chetana   | jalgaon     | 2021-12-11  |     42 | NULL
      |
|  107 | vaibhavi  | latur       | 2021-07-11  |    414 | NULL
      |
|  187 | shekhar   | nandurbar   | 2021-09-11  |    812 | NULL
      |
+------+-----------+-----------+-------------+--------+----------------
------+
24 rows in set (0.00 sec)

mysql> update table python_batch1 set email_id='sanjanapatil@gmail.com'
where s_n=7;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual
that corresponds to your MySQL server version for the right syntax to use
near 'table python_batch1 set email_id='sanjanapatil@gmail.com' where
s_n=7' at line 1
mysql> update python_batch1 set email_id='sanjanapatil@gmail.com' where
s_n=7;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from python_batch1;
+------+-----------+-----------+-------------+--------+----------------
------+
| s_n  | name      | address   | DOA         | number | email_id
      |
+------+-----------+-----------+-------------+--------+----------------
------+
|    1 | Priyanka  | Kondhwa   | 2021-05-20  |    456 | NULL
      |
|    2 | Priya     | pimpri    | 2021-06-20  |    556 | NULL
      |
|    7 | sanjana   | nasik     | 2021-07-20  |    956 |
sanjanapatil@gmail.com |
|    5 | vaibhav   | nasik     | 2021-07-20  |    952 |
vaibhavpatil@gmail.com |
|   13 | harshal   | jalana    | 2011-08-10  |    662 | NULL
      |
|   17 | bhushan   | pune      | 2018-08-10  |    762 | NULL
      |
|   23 | perna     | mumbai    | 2020-09-10  |   1022 | NULL
      |
|   15 | namay     | dhule     | 2021-08-10  |    523 | NULL
      |
```

```
|   27 | om        | raver       | 2015-08-10  |  583 | NULL
      |
|   37 | mayur     | goa         | 2017-11-10  | 1083 | NULL
      |
|   71 | mohan     | nagpur      | 2013-11-10  |  183 | NULL
      |
|  200 | tanushka  | banglore    | 2021-05-2020 |  100 | NULL
      |
|  150 | tanisha   | indoor      | 2021-07-2020 |  500 | NULL
      |
| 1200 | tanay     | aurangabad  | 2021-07-10  |  466 | NULL
      |
|  120 | vinay     | osmanbad    | 2191-07-10  |  476 | NULL
      |
|  950 | amar      | sangli      | 202-07-30   |  981 | NULL
      |
|  950 | amar      | sangli      | 202-07-30   |  981 | NULL
      |
|   90 | rakesh    | lahore      | 2020-08-12  |  666 | NULL
      |
|   70 | vaishnavi | thane       | 2019-09-12  |  686 | NULL
      |
|   40 | ritu      | beed        | 2021-08-10  |  498 | NULL
      |
|  577 | rakul     | bomaby      | 2021-09-11  |  421 | NULL
      |
| 1007 | chetana   | jalgaon     | 2021-12-11  |   42 | NULL
      |
|  107 | vaibhavi  | latur       | 2021-07-11  |  414 | NULL
      |
|  187 | shekhar   | nandurbar   | 2021-09-11  |  812 | NULL
      |
+------+----------+-----------+-------------+--------+----------------
------+
24 rows in set (0.00 sec)

mysql> update table python_batch1 set DOA='2021-10-17' where s_n=187;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual
that corresponds to your MySQL server version for the right syntax to use
near 'table python_batch1 set DOA='2021-10-17' where s_n=187' at line 1
mysql> update  python_batch1 set DOA='2021-10-17' where s_n=187;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from python_batch1;
+------+----------+-----------+-------------+--------+----------------
```

```
------+
| s_n | name      | address     | DOA         | number | email_id          |
+------+-----------+-------------+-------------+--------+-------------------
------+
|    1 | Priyanka  | Kondhwa     | 2021-05-20  |    456 | NULL              |
|    2 | Priya     | pimpri      | 2021-06-20  |    556 | NULL              |
|    7 | sanjana   | nasik       | 2021-07-20  |    956 |
sanjanapatil@gmail.com |
|    5 | vaibhav   | nasik       | 2021-07-20  |    952 |
vaibhavpatil@gmail.com |
|   13 | harshal   | jalana      | 2011-08-10  |    662 | NULL              |
|   17 | bhushan   | pune        | 2018-08-10  |    762 | NULL              |
|   23 | perna     | mumbai      | 2020-09-10  |   1022 | NULL              |
|   15 | namay     | dhule       | 2021-08-10  |    523 | NULL              |
|   27 | om        | raver       | 2015-08-10  |    583 | NULL              |
|   37 | mayur     | goa         | 2017-11-10  |   1083 | NULL              |
|   71 | mohan     | nagpur      | 2013-11-10  |    183 | NULL              |
|  200 | tanushka  | banglore    | 2021-05-2020 |   100 | NULL              |
|  150 | tanisha   | indoor      | 2021-07-2020 |   500 | NULL              |
| 1200 | tanay     | aurangabad  | 2021-07-10  |    466 | NULL              |
|  120 | vinay     | osmanbad    | 2191-07-10  |    476 | NULL              |
|  950 | amar      | sangli      | 202-07-30   |    981 | NULL              |
|  950 | amar      | sangli      | 202-07-30   |    981 | NULL              |
|   90 | rakesh    | lahore      | 2020-08-12  |    666 | NULL              |
|   70 | vaishnavi | thane       | 2019-09-12  |    686 | NULL              |
|   40 | ritu      | beed        | 2021-08-10  |    498 | NULL              |
|  577 | rakul     | bomaby      | 2021-09-11  |    421 | NULL              |
```

```
       |
| 1007 | chetana   | jalgaon   | 2021-12-11   |     42 | NULL
       |
|  107 | vaibhavi  | latur     | 2021-07-11   |    414 | NULL
       |
|  187 | shekhar   | nandurbar | 2021-10-17   |    812 | NULL
       |
+------+-----------+-----------+--------------+--------+----------------
------+
24 rows in set (0.00 sec)

mysql> delete from python_batch1 where s_n=1200;
Query OK, 1 row affected (0.01 sec)

mysql> select * from python_batch1;
+------+-----------+-----------+--------------+--------+-----------------
-----+
| s_n  | name      | address   | DOA          | number | email_id
    |
+------+-----------+-----------+--------------+--------+-----------------
-----+
|    1 | Priyanka  | Kondhwa   | 2021-05-20   |    456 | NULL
    |
|    2 | Priya     | pimpri    | 2021-06-20   |    556 | NULL
    |
|    7 | sanjana   | nasik     | 2021-07-20   |    956 |
sanjanapatil@gmail.com |
|    5 | vaibhav   | nasik     | 2021-07-20   |    952 |
vaibhavpatil@gmail.com |
|   13 | harshal   | jalana    | 2011-08-10   |    662 | NULL
    |
|   17 | bhushan   | pune      | 2018-08-10   |    762 | NULL
    |
|   23 | perna     | mumbai    | 2020-09-10   |   1022 | NULL
    |
|   15 | namay     | dhule     | 2021-08-10   |    523 | NULL
    |
|   27 | om        | raver     | 2015-08-10   |    583 | NULL
    |
|   37 | mayur     | goa       | 2017-11-10   |   1083 | NULL
    |
|   71 | mohan     | nagpur    | 2013-11-10   |    183 | NULL
    |
|  200 | tanushka  | banglore  | 2021-05-2020 |    100 | NULL
    |
|  150 | tanisha   | indoor    | 2021-07-2020 |    500 | NULL
```

```
              |
| 120  | vinay     | osmanbad  | 2191-07-10   |    476 | NULL
              |
| 950  | amar      | sangli    | 202-07-30    |    981 | NULL
              |
| 950  | amar      | sangli    | 202-07-30    |    981 | NULL
              |
|  90  | rakesh    | lahore    | 2020-08-12   |    666 | NULL
              |
|  70  | vaishnavi | thane     | 2019-09-12   |    686 | NULL
              |
|  40  | ritu      | beed      | 2021-08-10   |    498 | NULL
              |
| 577  | rakul     | bomaby    | 2021-09-11   |    421 | NULL
              |
| 1007 | chetana   | jalgaon   | 2021-12-11   |     42 | NULL
              |
| 107  | vaibhavi  | latur     | 2021-07-11   |    414 | NULL
              |
| 187  | shekhar   | nandurbar | 2021-10-17   |    812 | NULL
              |
+------+-----------+-----------+--------------+--------+-----------------
-----+
23 rows in set (0.00 sec)

mysql> START TRANSACTION;
Query OK, 0 rows affected (0.00 sec)

mysql> SAVEPOINT SP1;
Query OK, 0 rows affected (0.00 sec)

mysql> delete from python_batch1 where s_n > 2;
Query OK, 21 rows affected (0.00 sec)

mysql> select * from python_batch1;
+------+----------+---------+------------+--------+----------+
| s_n  | name     | address | DOA        | number | email_id |
+------+----------+---------+------------+--------+----------+
|    1 | Priyanka | Kondhwa | 2021-05-20 |    456 | NULL     |
|    2 | Priya    | pimpri  | 2021-06-20 |    556 | NULL     |
+------+----------+---------+------------+--------+----------+
2 rows in set (0.00 sec)

mysql> rollback to  SP1;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> select * from python_batch1;
+------+----------+----------+------------+--------+------------------------+
| s_n  | name     | address  | DOA        | number | email_id               |
+------+----------+----------+------------+--------+------------------------+
|    1 | Priyanka | Kondhwa  | 2021-05-20 |    456 | NULL                   |
|    2 | Priya    | pimpri   | 2021-06-20 |    556 | NULL                   |
|    7 | sanjana  | nasik    | 2021-07-20 |    956 | sanjanapatil@gmail.com |
|    5 | vaibhav  | nasik    | 2021-07-20 |    952 | vaibhavpatil@gmail.com |
|   13 | harshal  | jalana   | 2011-08-10 |    662 | NULL                   |
|   17 | bhushan  | pune     | 2018-08-10 |    762 | NULL                   |
|   23 | perna    | mumbai   | 2020-09-10 |   1022 | NULL                   |
|   15 | namay    | dhule    | 2021-08-10 |    523 | NULL                   |
|   27 | om       | raver    | 2015-08-10 |    583 | NULL                   |
|   37 | mayur    | goa      | 2017-11-10 |   1083 | NULL                   |
|   71 | mohan    | nagpur   | 2013-11-10 |    183 | NULL                   |
|  200 | tanushka | banglore | 2021-05-2020 |  100 | NULL                   |
|  150 | tanisha  | indoor   | 2021-07-2020 |  500 | NULL                   |
|  120 | vinay    | osmanbad | 2191-07-10 |    476 | NULL                   |
|  950 | amar     | sangli   | 202-07-30  |    981 | NULL                   |
|  950 | amar     | sangli   | 202-07-30  |    981 | NULL                   |
|   90 | rakesh   | lahore   | 2020-08-12 |    666 | NULL                   |
|   70 | vaishnavi| thane    | 2019-09-12 |    686 | NULL                   |
|   40 | ritu     | beed     | 2021-08-10 |    498 | NULL                   |
|  577 | rakul    | bomaby   | 2021-09-11 |    421 | NULL                   |
```

```
                |
| 1007 | chetana   | jalgaon   | 2021-12-11   |     42 | NULL
                |
|  107 | vaibhavi  | latur     | 2021-07-11   |    414 | NULL
                |
|  187 | shekhar   | nandurbar | 2021-10-17   |    812 | NULL
                |
+------+-----------+-----------+--------------+--------+-----------------
-----+
23 rows in set (0.00 sec)

mysql> insert into python_batch1 values(188, 'atish','pune',
'2021-10-08',485, 'atishagrwal@gmail.com');
Query OK, 1 row affected (0.00 sec)

mysql> select * from python_batch1;
+------+-----------+-----------+--------------+--------+-----------------
-----+
| s_n  | name      | address   | DOA          | number | email_id
      |
+------+-----------+-----------+--------------+--------+-----------------
-----+
|    1 | Priyanka  | Kondhwa   | 2021-05-20   |    456 | NULL
      |
|    2 | Priya     | pimpri    | 2021-06-20   |    556 | NULL
      |
|    7 | sanjana   | nasik     | 2021-07-20   |    956 |
sanjanapatil@gmail.com |
|    5 | vaibhav   | nasik     | 2021-07-20   |    952 |
vaibhavpatil@gmail.com |
|   13 | harshal   | jalana    | 2011-08-10   |    662 | NULL
      |
|   17 | bhushan   | pune      | 2018-08-10   |    762 | NULL
      |
|   23 | perna     | mumbai    | 2020-09-10   |   1022 | NULL
      |
|   15 | namay     | dhule     | 2021-08-10   |    523 | NULL
      |
|   27 | om        | raver     | 2015-08-10   |    583 | NULL
      |
|   37 | mayur     | goa       | 2017-11-10   |   1083 | NULL
      |
|   71 | mohan     | nagpur    | 2013-11-10   |    183 | NULL
      |
|  200 | tanushka  | banglore  | 2021-05-2020 |    100 | NULL
      |
```

```
|  150 | tanisha   | indoor    | 2021-07-2020 |    500 | NULL
     |
|  120 | vinay     | osmanbad  | 2191-07-10   |    476 | NULL
     |
|  950 | amar      | sangli    | 202-07-30    |    981 | NULL
     |
|  950 | amar      | sangli    | 202-07-30    |    981 | NULL
     |
|   90 | rakesh    | lahore    | 2020-08-12   |    666 | NULL
     |
|   70 | vaishnavi | thane     | 2019-09-12   |    686 | NULL
     |
|   40 | ritu      | beed      | 2021-08-10   |    498 | NULL
     |
|  577 | rakul     | bomaby    | 2021-09-11   |    421 | NULL
     |
| 1007 | chetana   | jalgaon   | 2021-12-11   |     42 | NULL
     |
|  107 | vaibhavi  | latur     | 2021-07-11   |    414 | NULL
     |
|  187 | shekhar   | nandurbar | 2021-10-17   |    812 | NULL
     |
|  188 | atish     | pune      | 2021-10-08   |    485 |
atishagrwal@gmail.com   |
+------+-----------+-----------+--------------+--------+-----------------
-----+
24 rows in set (0.00 sec)

mysql> commit;
Query OK, 0 rows affected (0.00 sec)

mysql> select * from python_batch1;
+------+-----------+-----------+--------------+--------+-----------------
-----+
| s_n  | name      | address   | DOA          | number | email_id
     |
+------+-----------+-----------+--------------+--------+-----------------
-----+
|    1 | Priyanka  | Kondhwa   | 2021-05-20   |    456 | NULL
     |
|    2 | Priya     | pimpri    | 2021-06-20   |    556 | NULL
     |
|    7 | sanjana   | nasik     | 2021-07-20   |    956 |
sanjanapatil@gmail.com |
|    5 | vaibhav   | nasik     | 2021-07-20   |    952 |
vaibhavpatil@gmail.com |
```

13	harshal	jalana	2011-08-10	662	NULL
17	bhushan	pune	2018-08-10	762	NULL
23	perna	mumbai	2020-09-10	1022	NULL
15	namay	dhule	2021-08-10	523	NULL
27	om	raver	2015-08-10	583	NULL
37	mayur	goa	2017-11-10	1083	NULL
71	mohan	nagpur	2013-11-10	183	NULL
200	tanushka	banglore	2021-05-2020	100	NULL
150	tanisha	indoor	2021-07-2020	500	NULL
120	vinay	osmanbad	2191-07-10	476	NULL
950	amar	sangli	202-07-30	981	NULL
950	amar	sangli	202-07-30	981	NULL
90	rakesh	lahore	2020-08-12	666	NULL
70	vaishnavi	thane	2019-09-12	686	NULL
40	ritu	beed	2021-08-10	498	NULL
577	rakul	bomaby	2021-09-11	421	NULL
1007	chetana	jalgaon	2021-12-11	42	NULL
107	vaibhavi	latur	2021-07-11	414	NULL
187	shekhar	nandurbar	2021-10-17	812	NULL
188	atish	pune	2021-10-08	485	atishagrwal@gmail.com

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

mysql> show tables;
+-----------------------+
```

```
| Tables_in_python_batch |
+------------------------+
| python_batch           |
| python_batch1          |
+------------------------+
2 rows in set (0.01 sec)

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| cscorner           |
| information_schema |
| mysql              |
| performance_schema |
| python_batch       |
| sql_airport        |
| sql_batch          |
| sql_bus            |
| sql_delhi          |
| sql_guitar         |
| sql_info           |
| sql_lazwer         |
| sql_lotus          |
| sql_mi             |
| sql_mzster         |
| sql_nr             |
| sql_nwler          |
| sql_paltan         |
| sql_path           |
| sql_pen            |
| sql_pride          |
| sql_robotics       |
| sql_runway         |
| sql_school         |
| sql_weekend        |
| sql_wzlord         |
| sys                |
+--------------------+
27 rows in set (0.00 sec)

mysql> drop database sql_paltan;
Query OK, 0 rows affected (0.05 sec)

mysql> show databases;
+--------------------+
```

```
| Database           |
+--------------------+
| cscorner           |
| information_schema |
| mysql              |
| performance_schema |
| python_batch       |
| sql_airport        |
| sql_batch          |
| sql_bus            |
| sql_delhi          |
| sql_guitar         |
| sql_info           |
| sql_lazwer         |
| sql_lotus          |
| sql_mi             |
| sql_mzster         |
| sql_nr             |
| sql_nwler          |
| sql_path           |
| sql_pen            |
| sql_pride          |
| sql_robotics       |
| sql_runway         |
| sql_school         |
| sql_weekend        |
| sql_wzlord         |
| sys                |
+--------------------+
26 rows in set (0.00 sec)

mysql> drop database sql_path;
Query OK, 1 row affected (0.05 sec)

mysql> drop database sql_pen;
Query OK, 1 row affected (0.02 sec)

mysql> drop database sql_pride;
Query OK, 1 row affected (0.03 sec)

mysql> drop database sql_weekend;
Query OK, 1 row affected (0.03 sec)

mysql> drop database sql_mi;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> drop database sql_lotus;
Query OK, 0 rows affected (0.01 sec)

mysql> drop database sql_guitar;
Query OK, 1 row affected (0.03 sec)

mysql> drop database sql_bus;
Query OK, 0 rows affected (0.01 sec)

mysql> drop database sql_airport;
Query OK, 1 row affected (0.05 sec)

mysql> drop database sql_delhi;
Query OK, 1 row affected (0.02 sec)

mysql> drop database sql_school;
Query OK, 1 row affected (0.02 sec)

mysql> drop database sql_nr;
Query OK, 1 row affected (0.03 sec)

mysql> drop database sql_robotics;
Query OK, 1 row affected (0.02 sec)

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| cscorner           |
| information_schema |
| mysql              |
| performance_schema |
| python_batch       |
| sql_batch          |
| sql_info           |
| sql_lazwer         |
| sql_mzster         |
| sql_nwler          |
| sql_runway         |
| sql_wzlord         |
| sys                |
+--------------------+
13 rows in set (0.01 sec)

mysql> drop database sql_info;
Query OK, 1 row affected (0.02 sec)
```

```
mysql> drop database sql_runway;
Query OK, 1 row affected (0.05 sec)

mysql> drop database sql_wzlord;
Query OK, 1 row affected (0.04 sec)

mysql> drop database sql_nwler;
Query OK, 0 rows affected (0.01 sec)

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| cscorner           |
| information_schema |
| mysql              |
| performance_schema |
| python_batch       |
| sql_batch          |
| sql_lazwer         |
| sql_mzster         |
| sys                |
+--------------------+
9 rows in set (0.01 sec)

mysql> select * from python_batch1;
+------+----------+----------+-------------+--------+------------------
-----+
| s_n  | name     | address  | DOA         | number | email_id
    |
+------+----------+----------+-------------+--------+------------------
-----+
|    1 | Priyanka | Kondhwa  | 2021-05-20  |    456 | NULL
    |
|    2 | Priya    | pimpri   | 2021-06-20  |    556 | NULL
    |
|    7 | sanjana  | nasik    | 2021-07-20  |    956 |
sanjanapatil@gmail.com |
|    5 | vaibhav  | nasik    | 2021-07-20  |    952 |
vaibhavpatil@gmail.com |
|   13 | harshal  | jalana   | 2011-08-10  |    662 | NULL
    |
|   17 | bhushan  | pune     | 2018-08-10  |    762 | NULL
    |
|   23 | perna    | mumbai   | 2020-09-10  |   1022 | NULL
```

```
|            |
|     15 | namay     | dhule     | 2021-08-10   |   523 | NULL
|            |
|     27 | om        | raver     | 2015-08-10   |   583 | NULL
|            |
|     37 | mayur     | goa       | 2017-11-10   |  1083 | NULL
|            |
|     71 | mohan     | nagpur    | 2013-11-10   |   183 | NULL
|            |
|    200 | tanushka  | banglore  | 2021-05-2020 |   100 | NULL
|            |
|    150 | tanisha   | indoor    | 2021-07-2020 |   500 | NULL
|            |
|    120 | vinay     | osmanbad  | 2191-07-10   |   476 | NULL
|            |
|    950 | amar      | sangli    | 202-07-30    |   981 | NULL
|            |
|    950 | amar      | sangli    | 202-07-30    |   981 | NULL
|            |
|     90 | rakesh    | lahore    | 2020-08-12   |   666 | NULL
|            |
|     70 | vaishnavi | thane     | 2019-09-12   |   686 | NULL
|            |
|     40 | ritu      | beed      | 2021-08-10   |   498 | NULL
|            |
|    577 | rakul     | bomaby    | 2021-09-11   |   421 | NULL
|            |
|   1007 | chetana   | jalgaon   | 2021-12-11   |    42 | NULL
|            |
|    107 | vaibhavi  | latur     | 2021-07-11   |   414 | NULL
|            |
|    187 | shekhar   | nandurbar | 2021-10-17   |   812 | NULL
|            |
|    188 | atish     | pune      | 2021-10-08   |   485 |
atishagrwal@gmail.com  |
+------+----------+----------+-------------+--------+-----------------
-----+
24 rows in set (0.00 sec)

mysql> truncate table python_batch1;
Query OK, 0 rows affected (0.05 sec)

mysql> select * from python_batch1;
Empty set (0.01 sec)

mysql> show tables;
```

```
+----------------------+
| Tables_in_python_batch |
+----------------------+
| python_batch         |
| python_batch1        |
+----------------------+
2 rows in set (0.01 sec)

mysql>
```


 Date : 10/10/21

I n n e r J o i n


```
select customer.cust_name, customer.city, salesperson.name,
salesperson.city as salesperson_city from customer inner join salesperson
on
salesperson.salesman_id = customer.salesman_id;
```


```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| electrical_batch   |
| information_schema |
| innerjoin          |
| mysql              |
| performance_schema |
| phon               |
| pridetech          |
| python_batch       |
| sql_batch          |
| sql_mzster         |
| sys                |
+--------------------+
11 rows in set (0.01 sec)
```

```
mysql> use innerjoin;
Database changed
mysql> show tables;
+---------------------+
| Tables_in_innerjoin |
+---------------------+
| customer            |
| orders              |
| salesperson         |
+---------------------+
3 rows in set (0.00 sec)

mysql> desc customer;
+-------------+--------------+------+-----+---------+-------+
| Field       | Type         | Null | Key | Default | Extra |
+-------------+--------------+------+-----+---------+-------+
| customer_id | int          | YES  |     | NULL    |       |
| cust_name   | varchar(255) | YES  |     | NULL    |       |
| city        | varchar(255) | YES  |     | NULL    |       |
| grade       | int          | YES  |     | NULL    |       |
| salesman_id | int          | YES  |     | NULL    |       |
+-------------+--------------+------+-----+---------+-------+
5 rows in set (0.02 sec)

mysql> select * from customer;
+-------------+-----------+-----------+-------+-------------+
| customer_id | cust_name | city      | grade | salesman_id |
+-------------+-----------+-----------+-------+-------------+
|        3001 | Brad      | London    |   100 |        5005 |
|        3002 | Nick      | New York  |   100 |        5001 |
|        3003 | Jozy      | Mascow    |   200 |        5007 |
|        3004 | Fabian    | Paris     |   300 |        5006 |
|        3005 | Graham    | Califoria |   200 |        5002 |
|        3007 | Brad      | New York  |   200 |        5001 |
|        3008 | Julian    | London    |   300 |        5002 |
|        3009 | Jeff      | Berlin    |   100 |        5003 |
+-------------+-----------+-----------+-------+-------------+
8 rows in set (0.00 sec)

mysql> select * from salesperson;
+-------------+--------+----------+------------+
| salesman_id | name   | city     | commission |
+-------------+--------+----------+------------+
|        5001 | Neil   | New York |         10 |
|        5002 | Pit    | Paris    |         13 |
```

```
|        5003 | Lyon   | London    |          11 |
|        5004 | Luasen | Paris     |          17 |
|        5005 | Niki   | Califoria |          15 |
+-------------+--------+-----------+-------------+
5 rows in set (0.00 sec)

mysql> select customer.cust_name, customer.city as customer_city,
salesperson.name as salesman_name, salesperson.city as salesman_city from
customer inner join salesperson on salesperson.salesman_id =
customer.salesman_id;
+-----------+---------------+---------------+---------------+
| cust_name | customer_city | salesman_name | salesman_city |
+-----------+---------------+---------------+---------------+
| Brad      | London        | Niki          | Califoria     |
| Nick      | New York      | Neil          | New York      |
| Graham    | California    | Pit           | Paris         |
| Brad      | New York      | Neil          | New York      |
| Julian    | London        | Pit           | Paris         |
| Jeff      | Berlin        | Lyon          | London        |
+-----------+---------------+---------------+---------------+
6 rows in set (0.00 sec)

mysql> select * from salesperson;
+-------------+--------+-----------+------------+
| salesman_id | name   | city      | commission |
+-------------+--------+-----------+------------+
|        5001 | Neil   | New York  |         10 |
|        5002 | Pit    | Paris     |         13 |
|        5003 | Lyon   | London    |         11 |
|        5004 | Luasen | Paris     |         17 |
|        5005 | Niki   | Califoria |         15 |
+-------------+--------+-----------+------------+
5 rows in set (0.00 sec)

mysql> select * from customer;
+-------------+-----------+------------+-------+-------------+
| customer_id | cust_name | city       | grade | salesman_id |
+-------------+-----------+------------+-------+-------------+
|        3001 | Brad      | London     |   100 |        5005 |
|        3002 | Nick      | New York   |   100 |        5001 |
|        3003 | Jozy      | Mascow     |   200 |        5007 |
|        3004 | Fabian    | Paris      |   300 |        5006 |
|        3005 | Graham    | California |   200 |        5002 |
|        3007 | Brad      | New York   |   200 |        5001 |
|        3008 | Julian    | London     |   300 |        5002 |
|        3009 | Jeff      | Berlin     |   100 |        5003 |
```

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

mysql> select customer.cust_name, customer.city as customer_city,
salesperson.name as salesman_name, salesperson.city as salesman_city from
customer inner join salesperson on salesperson.salesman_id =
customer.salesman_id where customer.grade > 100;
+-----------+--------------+--------------+--------------+
| cust_name | customer_city | salesman_name | salesman_city |
+-----------+--------------+--------------+--------------+
| Brad      | New York     | Neil         | New York     |
| Julian    | London       | Pit          | Paris        |
| Graham    | Califoria    | Pit          | Paris        |
+-----------+--------------+--------------+--------------+
3 rows in set (0.00 sec)

mysql> select customer.cust_name, customer.city as customer_city,
salesperson.name as salesman_name, salesperson.city as salesman_city from
customer inner join salesperson on salesperson.salesman_id =
customer.salesman_id where salesperson.commission > 12;
+-----------+--------------+--------------+--------------+
| cust_name | customer_city | salesman_name | salesman_city |
+-----------+--------------+--------------+--------------+
| Brad      | London       | Niki         | Califoria    |
| Graham    | Califoria    | Pit          | Paris        |
| Julian    | London       | Pit          | Paris        |
+-----------+--------------+--------------+--------------+
3 rows in set (0.00 sec)

mysql> select * from orders;
+----------+-----------+------------+-------------+-------------+
| order_no | purch_amt | order_date | customer_id | salesman_id |
+----------+-----------+------------+-------------+-------------+
|    70001 |       150 | 2020-10-05 |        3005 |        5002 |
|    70009 |       270 | 2020-09-10 |        3001 |        5005 |
|    70002 |        66 | 2020-10-05 |        3002 |        5001 |
|    70004 |       111 | 2020-08-17 |        3009 |        5003 |
|    70007 |       950 | 2020-09-10 |        3005 |        5002 |
|    70005 |      2400 | 2020-07-27 |        3007 |        5001 |
|    70008 |      5760 | 2020-09-10 |        3002 |        5001 |
|    70010 |      1990 | 2020-10-10 |        3004 |        5006 |
|    70003 |      2500 | 2020-10-10 |        3009 |        5003 |
|    70012 |       250 | 2020-06-27 |        3008 |        5002 |
|    70011 |        76 | 2020-08-17 |        3003 |        5007 |
|    70013 |      3045 | 2020-04-25 |        3002 |        5001 |
|    70014 |      1800 | 2020-07-25 |        3010 |        5007 |
```

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

mysql> select * from salesperson;
+-------------+--------+----------+------------+
| salesman_id | name   | city     | commission |
+-------------+--------+----------+------------+
|        5001 | Neil   | New York |         10 |
|        5002 | Pit    | Paris    |         13 |
|        5003 | Lyon   | London   |         11 |
|        5004 | Luasen | Paris    |         17 |
|        5005 | Niki   | Califoria |        15 |
+-------------+--------+----------+------------+
5 rows in set (0.00 sec)

mysql> select salesperson.name as salesman_name, salesperson.city as
salesman_city, orders.order_no from salesperson inner join orders on
orders.salesman_id = salesperson.salesman_id where orders.purch_amt > 200;
+---------------+---------------+----------+
| salesman_name | salesman_city | order_no |
+---------------+---------------+----------+
| Neil          | New York      |    70013 |
| Neil          | New York      |    70008 |
| Neil          | New York      |    70005 |
| Pit           | Paris         |    70012 |
| Pit           | Paris         |    70007 |
| Lyon          | London        |    70003 |
| Niki          | Califoria     |    70009 |
+---------------+---------------+----------+
7 rows in set (0.00 sec)

mysql> select salesperson.name as salesman_name, salesperson.city as
salesman_city, orders.order_no from salesperson inner join orders on
orders.salesman_id = salesperson.salesman_id where orders.purch_amt > 200
and salesperson.commission > 12;
+---------------+---------------+----------+
| salesman_name | salesman_city | order_no |
+---------------+---------------+----------+
| Niki          | Califoria     |    70009 |
| Pit           | Paris         |    70007 |
| Pit           | Paris         |    70012 |
+---------------+---------------+----------+
3 rows in set (0.00 sec)

mysql>
```

```
 select customer.cust_name, salesperson.name as salesman_name,
orders.order_no from customer inner join salesperson on
salesperson.salesman_id = customer.salesman_id inner join orders on
customer.salesman_id = orders.salesman_id;
```

```
+-----------+---------------+-----------+
| cust_name | salesman_name | order_no  |
+-----------+---------------+-----------+
| Julian    | Pit           |     70001 |
| Graham    | Pit           |     70001 |
| Brad      | Niki          |     70009 |
| Brad      | Neil          |     70002 |
| Nick      | Neil          |     70002 |
| Jeff      | Lyon          |     70004 |
| Julian    | Pit           |     70007 |
| Graham    | Pit           |     70007 |
| Brad      | Neil          |     70005 |
| Nick      | Neil          |     70005 |
| Brad      | Neil          |     70008 |
| Nick      | Neil          |     70008 |
| Jeff      | Lyon          |     70003 |
| Julian    | Pit           |     70012 |
| Graham    | Pit           |     70012 |
| Brad      | Neil          |     70013 |
| Nick      | Neil          |     70013 |
+-----------+---------------+-----------+
17 rows in set (0.00 sec)
```

```
 select customer.cust_name, salesperson.city, orders.order_no from customer
inner join salesperson on salesperson.salesman_id = customer.salesman_id
inner join orders on salesperson.salesman_id = orders.salesman_id where
orders.purch_amt > 450;
```

```
+-----------+----------+-----------+
| cust_name | city     | order_no  |
+-----------+----------+-----------+
| Nick      | New York |     70005 |
| Nick      | New York |     70008 |
| Nick      | New York |     70013 |
| Graham    | Paris    |     70007 |
| Brad      | New York |     70005 |
| Brad      | New York |     70008 |
```

```
| Brad       | New York |    70013 |
| Julian     | Paris    |    70007 |
| Jeff       | London   |    70003 |
+------------+----------+----------+
9 rows in set (0.00 sec)
```

L E F T   J O I N   & R I G H T   J O I N   W I T H   S U B Q U E R Y

link:-
https://www.w3resource.com/sql-exercises/sql-subqueries-exercises.php

DEFINATION OF INNER JOIN:- COMMON DATA IN WHICH DATASET WILL MATCHING
THEN BE RETURN .

DEFINATION OF LEFT JOIN:- IF WE SPECIFIED IN RETURN COLUMN NAME OF LEFT
SIDE TABLE THESE ARE RETURN, BUT RIGHT SIDE TABLE DATA TRY TO MATCHING LEFT
SIDE TABLE DATA IF THESE MATCH BE RETURN OTHERWISE NULL VALUES FETCHES.

DEFINATION OF RIGHT JOIN:- IF WE SPECIFIED IN RETURN COLUMN NAME OF RIGHT
SIDE TABLE THESE ARE RETURN, BUT LEFT SIDE TABLE DATA TRY TO MATCHING RIGHT
SIDE TABLE DATA IF THESE MATCH BE RETURN OTHERWISE NULL VALUES FETCHES.

Q1

sub query: select emp_id, salary from employee where emp_id 163;

                emp_id salary
                163   xyz

final(left)   select employee.first_name, employee.last_name from
employee left join (select emp_id, salary from employee where emp_id 163)

                a on employee.emp_id = a.emp_id where employee.salary >
a.salary;

                first_name   last_name

final(right)   select employee.first_name, employee.last_name from (select
emp_id, salary from employee where emp_id 163) right join employee
```

a on employee.emp_id = a.emp_id where employee.salary > a.salary;


Q2

sub query:    select emp_id, designation from employee where emp_id = 163

              emp_id  designation
              163     xyz


final right:  select employee.first_name,employee.last_name, employee.department_ID,employee.job_ID from (select emp_id from employee where
              emp_id = 163) a right join employee on employee.emp_id = a.emp_id where a.designation = employee.designation;


final left    select employee.first_name,employee.last_name, employee.department_ID,employee.job_ID from employee left join (select emp_id
              from employee where emp_id = 163) a on employee.emp_id = a.emp_id where a.designation = employee.designation;


              first_name      last_name       department_id   job_id




              select employees.F_nme, employees.L_nme from employees left join (select employee_id, Salary from employees where employee_id = 163)
              a on employees.employee_id=a.employee_id where employees.Salary > a.Salary;


select employees.F_nme, employees.L_nme, employees.Salary, employees.job_id, employees.Department_id from workers right join
 employees on workers.employee_id= employees.employee_id where

```
employees.job_id='St-Clerk';
+---------+-------------+--------+----------+---------------+
| F_nme   | L_nme       | Salary | job_id   | Department_id |
+---------+-------------+--------+----------+---------------+
| Irene   | Mikkilineni | 27000  | St-Clerk |            50 |
| James   | Landry      | 26000  | St-Clerk |            50 |
| Mozhe   | Atkinson    | 25000  | St-Clerk |            50 |
| Tj      | Olson       | 37000  | St-Clerk |            50 |
| Jason   | Mallin      | 22000  | St-Clerk |            48 |
| Micheil | Rogers      | 21000  | St-CLerk |            49 |
| Lauraa  | Bissot      | 29000  | St-CLerk |            51 |
| Steven  | Marvel      | 20000  | St-CLerk |            52 |
| Jullia  | Nayer       | 25800  | St-CLerk |            54 |
+---------+-------------+--------+----------+---------------+
```

```
 select employees.F_nme, employees.L_nme from employees left join workers
on employees.employee_id=workers.employee_id where employees.Salary>9500;
+---------+-------------+
| F_nme   | L_nme       |
+---------+-------------+
| Steven  | King        |
| Neena   | Kochhar     |
| Lex     | De Haan     |
| Nancy   | Greenberg   |
| Irene   | Mikkilineni |
| James   | Landry      |
| Mozhe   | Atkinson    |
| Tj      | Olson       |
| Jason   | Mallin      |
| Micheil | Rogers      |
| Lauraa  | Bissot      |
| Steven  | Marvel      |
| Jullia  | Nayer       |
+---------+-------------+
13 rows in set (0.00 sec)

mysql>
```

L E F T   O U T E R   J O I N   A N D   R I G H T   O U T E R   J O I N

```
mysql> show databases;
```

```
+--------------------+
| Database           |
+--------------------+
| electrical_batch   |
| hyperxsoft         |
| information_schema |
| innerjoin          |
| mysql              |
| performance_schema |
| phon               |
| pridetech          |
| python_batch       |
| sql_mzster         |
| sys                |
+--------------------+
11 rows in set (0.00 sec)

mysql> use innerjoin;
Database changed
mysql> show tables;
+---------------------+
| Tables_in_innerjoin |
+---------------------+
| businessman         |
| customer            |
| employees           |
| orders              |
| salesperson         |
| workers             |
+---------------------+
6 rows in set (0.00 sec)

mysql> select * from customer;
+-------------+-----------+-----------+-------+-------------+
| customer_id | cust_name | city      | grade | salesman_id |
+-------------+-----------+-----------+-------+-------------+
|        3001 | Brad      | London    |   100 |        5005 |
|        3002 | Nick      | New York  |   100 |        5001 |
|        3003 | Jozy      | Mascow    |   200 |        5007 |
|        3004 | Fabian    | Paris     |   300 |        5006 |
|        3005 | Graham    | Califoria |   200 |        5002 |
|        3007 | Brad      | New York  |   200 |        5001 |
|        3008 | Julian    | London    |   300 |        5002 |
|        3009 | Jeff      | Berlin    |   100 |        5003 |
+-------------+-----------+-----------+-------+-------------+
8 rows in set (0.00 sec)
```

```
mysql> select * from salesperson;
+-------------+--------+-----------+------------+
| salesman_id | name   | city      | commission |
+-------------+--------+-----------+------------+
|        5001 | Neil   | New York  |         10 |
|        5002 | Pit    | Paris     |         13 |
|        5003 | Lyon   | London    |         11 |
|        5004 | Luasen | Paris     |         17 |
|        5005 | Niki   | Califoria |         15 |
+-------------+--------+-----------+------------+
5 rows in set (0.00 sec)

mysql> select * from orders;
+----------+-----------+------------+-------------+-------------+
| order_no | purch_amt | order_date | customer_id | salesman_id |
+----------+-----------+------------+-------------+-------------+
|    70001 |       150 | 2020-10-05 |        3005 |        5002 |
|    70009 |       270 | 2020-09-10 |        3001 |        5005 |
|    70002 |        66 | 2020-10-05 |        3002 |        5001 |
|    70004 |       111 | 2020-08-17 |        3009 |        5003 |
|    70007 |       950 | 2020-09-10 |        3005 |        5002 |
|    70005 |      2400 | 2020-07-27 |        3007 |        5001 |
|    70008 |      5760 | 2020-09-10 |        3002 |        5001 |
|    70010 |      1990 | 2020-10-10 |        3004 |        5006 |
|    70003 |      2500 | 2020-10-10 |        3009 |        5003 |
|    70012 |       250 | 2020-06-27 |        3008 |        5002 |
|    70011 |        76 | 2020-08-17 |        3003 |        5007 |
|    70013 |      3045 | 2020-04-25 |        3002 |        5001 |
|    70014 |      1800 | 2020-07-25 |        3010 |        5007 |
+----------+-----------+------------+-------------+-------------+
13 rows in set (0.00 sec)

mysql> select salesperson.salesman_id, salesperson.name, salesperson.city,
customer.cust_name, customer.city, orders.order_no, orders.purch_amt,
orders.order_date from salesperson left outer join customer on
salesperson.salesman_id=customer.salesman_id left outer join orders on
customer.salesman_id=orders.salesman_id where orders.purch_amt > 2000 and
customer.grade IS NOT NULL;
+-------------+------+----------+-----------+----------+----------+--------
---+------------+
| salesman_id | name | city     | cust_name | city     | order_no |
purch_amt | order_date |
+-------------+------+----------+-----------+----------+----------+--------
---+------------+
|        5001 | Neil | New York | Nick      | New York |    70005 |
```

```
2400 | 2020-07-27 |
|         5001 | Neil | New York | Nick       | New York |     70008 |
5760 | 2020-09-10 |
|         5001 | Neil | New York | Nick       | New York |     70013 |
3045 | 2020-04-25 |
|         5001 | Neil | New York | Brad       | New York |     70005 |
2400 | 2020-07-27 |
|         5001 | Neil | New York | Brad       | New York |     70008 |
5760 | 2020-09-10 |
|         5001 | Neil | New York | Brad       | New York |     70013 |
3045 | 2020-04-25 |
|         5003 | Lyon | London   | Jeff       | Berlin   |     70003 |
2500 | 2020-10-10 |
+------------+------+----------+----------+----------+----------+--------
---+------------+
7 rows in set (0.00 sec)

mysql> select * from orders;
+----------+-----------+------------+-------------+-------------+
| order_no | purch_amt | order_date | customer_id | salesman_id |
+----------+-----------+------------+-------------+-------------+
|    70001 |       150 | 2020-10-05 |        3005 |        5002 |
|    70009 |       270 | 2020-09-10 |        3001 |        5005 |
|    70002 |        66 | 2020-10-05 |        3002 |        5001 |
|    70004 |       111 | 2020-08-17 |        3009 |        5003 |
|    70007 |       950 | 2020-09-10 |        3005 |        5002 |
|    70005 |      2400 | 2020-07-27 |        3007 |        5001 |
|    70008 |      5760 | 2020-09-10 |        3002 |        5001 |
|    70010 |      1990 | 2020-10-10 |        3004 |        5006 |
|    70003 |      2500 | 2020-10-10 |        3009 |        5003 |
|    70012 |       250 | 2020-06-27 |        3008 |        5002 |
|    70011 |        76 | 2020-08-17 |        3003 |        5007 |
|    70013 |      3045 | 2020-04-25 |        3002 |        5001 |
|    70014 |      1800 | 2020-07-25 |        3010 |        5007 |
+----------+-----------+------------+-------------+-------------+
13 rows in set (0.00 sec)

mysql> select * from salesperson;
+-------------+--------+----------+------------+
| salesman_id | name   | city     | commission |
+-------------+--------+----------+------------+
|        5001 | Neil   | New York |         10 |
|        5002 | Pit    | Paris    |         13 |
|        5003 | Lyon   | London   |         11 |
|        5004 | Luasen | Paris    |         17 |
|        5005 | Niki   | Califoria |        15 |
```

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

mysql> select * from customer;
+-------------+-----------+-----------+-------+-------------+
| customer_id | cust_name | city      | grade | salesman_id |
+-------------+-----------+-----------+-------+-------------+
|        3001 | Brad      | London    |   100 |        5005 |
|        3002 | Nick      | New York  |   100 |        5001 |
|        3003 | Jozy      | Mascow    |   200 |        5007 |
|        3004 | Fabian    | Paris     |   300 |        5006 |
|        3005 | Graham    | Califoria |   200 |        5002 |
|        3007 | Brad      | New York  |   200 |        5001 |
|        3008 | Julian    | London    |   300 |        5002 |
|        3009 | Jeff      | Berlin    |   100 |        5003 |
+-------------+-----------+-----------+-------+-------------+
8 rows in set (0.00 sec)


mysql> select customer.cust_name, customer.city, orders.order_no as
order_number, orders.purch_amt as order_amt, orders.order_date,
salesperson.name, salesperson.commission from customer left outer join
orders on customer.salesman_id=orders.salesman_id left outer join
salesperson on customer.salesman_id=salesperson.salesman_id;
+-----------+-----------+--------------+-----------+------------+------+---
---------+
| cust_name | city      | order_number | order_amt | order_date | name |
commission |
+-----------+-----------+--------------+-----------+------------+------+---
---------+
| Brad      | London    |        70009 |       270 | 2020-09-10 | Niki |
     15 |
| Nick      | New York  |        70013 |      3045 | 2020-04-25 | Neil |
     10 |
| Nick      | New York  |        70008 |      5760 | 2020-09-10 | Neil |
     10 |
| Nick      | New York  |        70005 |      2400 | 2020-07-27 | Neil |
     10 |
| Nick      | New York  |        70002 |        66 | 2020-10-05 | Neil |
     10 |
| Jozy      | Mascow    |        70014 |      1800 | 2020-07-25 | NULL |
   NULL |
| Jozy      | Mascow    |        70011 |        76 | 2020-08-17 | NULL |
   NULL |
| Fabian    | Paris     |        70010 |      1990 | 2020-10-10 | NULL |
   NULL |
```

```
| Graham    | Califoria |       70012 |       250 | 2020-06-27 | Pit  |
      13 |
| Graham    | Califoria |       70007 |       950 | 2020-09-10 | Pit  |
      13 |
| Graham    | Califoria |       70001 |       150 | 2020-10-05 | Pit  |
      13 |
| Brad      | New York  |       70013 |      3045 | 2020-04-25 | Neil |
      10 |
| Brad      | New York  |       70008 |      5760 | 2020-09-10 | Neil |
      10 |
| Brad      | New York  |       70005 |      2400 | 2020-07-27 | Neil |
      10 |
| Brad      | New York  |       70002 |        66 | 2020-10-05 | Neil |
      10 |
| Julian    | London    |       70012 |       250 | 2020-06-27 | Pit  |
      13 |
| Julian    | London    |       70007 |       950 | 2020-09-10 | Pit  |
      13 |
| Julian    | London    |       70001 |       150 | 2020-10-05 | Pit  |
      13 |
| Jeff      | Berlin    |       70003 |      2500 | 2020-10-10 | Lyon |
      11 |
| Jeff      | Berlin    |       70004 |       111 | 2020-08-17 | Lyon |
      11 |
+-----------+-----------+-------------+-----------+------------+------+---
---------+
20 rows in set (0.00 sec)


mysql> select * from orders;
+----------+-----------+------------+-------------+-------------+
| order_no | purch_amt | order_date | customer_id | salesman_id |
+----------+-----------+------------+-------------+-------------+
|    70001 |       150 | 2020-10-05 |        3005 |        5002 |
|    70009 |       270 | 2020-09-10 |        3001 |        5005 |
|    70002 |        66 | 2020-10-05 |        3002 |        5001 |
|    70004 |       111 | 2020-08-17 |        3009 |        5003 |
|    70007 |       950 | 2020-09-10 |        3005 |        5002 |
|    70005 |      2400 | 2020-07-27 |        3007 |        5001 |
|    70008 |      5760 | 2020-09-10 |        3002 |        5001 |
|    70010 |      1990 | 2020-10-10 |        3004 |        5006 |
|    70003 |      2500 | 2020-10-10 |        3009 |        5003 |
|    70012 |       250 | 2020-06-27 |        3008 |        5002 |
|    70011 |        76 | 2020-08-17 |        3003 |        5007 |
|    70013 |      3045 | 2020-04-25 |        3002 |        5001 |
```

```
|      70014 |       1800 | 2020-07-25 |        3010 |        5007 |
+----------+-----------+------------+-------------+-------------+
13 rows in set (0.00 sec)

mysql> select * from customer;
+-------------+-----------+-----------+-------+-------------+
| customer_id | cust_name | city      | grade | salesman_id |
+-------------+-----------+-----------+-------+-------------+
|        3001 | Brad      | London    |   100 |        5005 |
|        3002 | Nick      | New York  |   100 |        5001 |
|        3003 | Jozy      | Mascow    |   200 |        5007 |
|        3004 | Fabian    | Paris     |   300 |        5006 |
|        3005 | Graham    | Califoria |   200 |        5002 |
|        3007 | Brad      | New York  |   200 |        5001 |
|        3008 | Julian    | London    |   300 |        5002 |
|        3009 | Jeff      | Berlin    |   100 |        5003 |
+-------------+-----------+-----------+-------+-------------+
8 rows in set (0.00 sec)

mysql> select * from saleperson;
ERROR 1146 (42S02): Table 'innerjoin.saleperson' doesn't exist
mysql> select * from salesperson;
+-------------+--------+-----------+------------+
| salesman_id | name   | city      | commission |
+-------------+--------+-----------+------------+
|        5001 | Neil   | New York  |         10 |
|        5002 | Pit    | Paris     |         13 |
|        5003 | Lyon   | London    |         11 |
|        5004 | Luasen | Paris     |         17 |
|        5005 | Niki   | Califoria |         15 |
+-------------+--------+-----------+------------+
5 rows in set (0.00 sec)

mysql> select orders.order_no, orders.purch_amt, orders.order_date,
customer.cust_name, customer.grade, salesperson.name as salesman_name,
salesperson.commission from orders right outer join customer on
orders.salesman_id=customer.salesman_id left outer join salesperson on
orders.salesman_id=salesperson.salesman_id;
+----------+-----------+------------+-----------+-------+---------------+--
----------+
| order_no | purch_amt | order_date | cust_name | grade | salesman_name |
commission |
+----------+-----------+------------+-----------+-------+---------------+--
----------+
|    70009 |       270 | 2020-09-10 | Brad      |   100 | Niki          |
     15 |
```

70013	3045	2020-04-25	Nick	100	Neil	10
70008	5760	2020-09-10	Nick	100	Neil	10
70005	2400	2020-07-27	Nick	100	Neil	10
70002	66	2020-10-05	Nick	100	Neil	10
70014	1800	2020-07-25	Jozy	200	NULL	NULL
70011	76	2020-08-17	Jozy	200	NULL	NULL
70010	1990	2020-10-10	Fabian	300	NULL	NULL
70012	250	2020-06-27	Graham	200	Pit	13
70007	950	2020-09-10	Graham	200	Pit	13
70001	150	2020-10-05	Graham	200	Pit	13
70013	3045	2020-04-25	Brad	200	Neil	10
70008	5760	2020-09-10	Brad	200	Neil	10
70005	2400	2020-07-27	Brad	200	Neil	10
70002	66	2020-10-05	Brad	200	Neil	10
70012	250	2020-06-27	Julian	300	Pit	13
70007	950	2020-09-10	Julian	300	Pit	13
70001	150	2020-10-05	Julian	300	Pit	13
70003	2500	2020-10-10	Jeff	100	Lyon	11
70004	111	2020-08-17	Jeff	100	Lyon	11

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

mysql>
```

                                                    ###
30/Oct/2021###

                                                    ### S c r i p t i
n g   ###

@@@ Notepad mein note krna !!
create database new_hyper;
use new_hyper;
create table s1 (date int(10), val int(10));
insert into s1 values(40,67);
insert into s1 values(27,72);

@@@ File Explorer mein kisi bhi drive mein notepad ka data store krna!!

@@@ use Command Promt

Microsoft Windows [Version 10.0.19042.1237]
(c) Microsoft Corporation. All rights reserved.

C:\Users\acer>mysql -u root -p@pride#tech78 <E:\hyper.sql
                      -u=User , -p=Password,   location=file explorer mein
jo store krtey hai uska path dena pdta!!

C:\Users\acer>

Enter password: *************
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 21
Server version: 8.0.26 MySQL Community Server - GPL

Copyright (c) 2000, 2021, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| electrical_batch   |
| hyperxsoft         |
| information_schema |
| innerjoin          |
| mysql              |
| new_hyper          |
4

| performance_schema |
| phon               |
| pridetech          |
| python_batch       |
| sql_mzster         |
| sys                |
+--------------------+
12 rows in set (0.00 sec)

mysql> use new_hyper;
Database changed
mysql> show tables;
+---------------------+
| Tables_in_new_hyper |
+---------------------+
| s1                  |
+---------------------+
1 row in set (0.01 sec)

mysql> select * from s1;
+------+------+
| date | val  |
+------+------+
|   40 |   67 |
|   27 |   72 |
+------+------+
2 rows in set (0.00 sec)
```

```
mysql>
```

Import AND Export dataset file

 @ CMD
1) Import:-

Microsoft Windows [Version 10.0.19042.1237]
(c) Microsoft Corporation. All rights reserved.

C:\Users\acer>mysqldump -u root -p smart s7 >E:\tanu\s7.sql
Enter password: *************

C:\Users\acer>

@CMD
2) Export :-

C:\Users\acer>mysql -u root -p@pride#tech78 smart <Downloads.sql
mysql: [Warning] Using a password on the command line interface can be
insecure.

C:\Users\acer>mysql -u root -p
Enter password: *************

Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 21
Server version: 8.0.26 MySQL Community Server - GPL

Copyright (c) 2000, 2021, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

statement.

```
mysql> use smart;
show tables;
select * from s7;
```

A U T O   I N C R E M E N T   &   A U T O   U P D A T E

```
Enter password: *************
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 43
Server version: 8.0.26 MySQL Community Server - GPL

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Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| electrical_batch   |
| hyperxsoft         |
| information_schema |
| innerjoin          |
| mobile             |
| mysql              |
| new_hyper          |
| patil              |
| performance_schema |
| phon               |
| pridetech          |
| python_batch       |
| smart              |
| sql_mzster         |
| sys                |
| wooden             |
+--------------------+
```

```
16 rows in set (0.01 sec)

mysql> use innerjoin;
Database changed
mysql> show tables;
+----------------------+
| Tables_in_innerjoin  |
+----------------------+
| businessman          |
| customer             |
| employees            |
| orders               |
| salesperson          |
| workers              |
+----------------------+
6 rows in set (0.01 sec)

mysql> create table auto (id int(10) NOT NULL AUTO_INCREMENT, Date
TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
name varchar(255), primary key(id));
Query OK, 0 rows affected, 1 warning (0.05 sec)

mysql> desc auto;
+-------+--------------+------+-----+-------------------+-----------------
----------------------------+
| Field | Type         | Null | Key | Default           | Extra
                            |
+-------+--------------+------+-----+-------------------+-----------------
----------------------------+
| id    | int          | NO   | PRI | NULL              | auto_increment
                            |
| Date  | timestamp    | NO   |     | CURRENT_TIMESTAMP | DEFAULT_GENERATED
on update CURRENT_TIMESTAMP |
| name  | varchar(255) | YES  |     | NULL              |
                            |
+-------+--------------+------+-----+-------------------+-----------------
----------------------------+
3 rows in set (0.02 sec)

mysql> insert into auto (name) values ('vaibhav');
Query OK, 1 row affected (0.01 sec)

mysql> insert into auto (name) values ('piyush');
Query OK, 1 row affected (0.01 sec)

mysql> insert into auto (name) values ('harshada');
```

```
Query OK, 1 row affected (0.01 sec)

mysql> insert into auto (name) values ('sanjana');
Query OK, 1 row affected (0.01 sec)

mysql> select * from auto;
+----+---------------------+----------+
| id | Date                | name     |
+----+---------------------+----------+
|  1 | 2021-10-31 12:52:35 | vaibhav  |
|  2 | 2021-10-31 12:52:43 | piyush   |
|  3 | 2021-10-31 12:52:53 | harshada |
|  4 | 2021-10-31 12:53:00 | sanjana  |
+----+---------------------+----------+
4 rows  in set (0.00 sec)

mysql>
create table auto (id int(10) not null auto_increment, date timestamp not
null default current_timestamp on update cirrent_timestamp, name
varchar(255), primary key(id));
```

```
create trigger bill
after
insert
on bill
for each row
insert into bill2 (date) values('2021-11-06')

DELIMITER &&
CREATE PROCEDUERE get_count()
BEGIN
select count(*) from bill;
select count(*) ffrom bill2;
```

```
END
DELIMITER &&;




                                         # # #   T R I G G E R # # #


mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| alpha              |
| boot               |
| electrical_batch   |
| hyperxsoft         |
| information_schema |
| innerjoin          |
| joker              |
| mobile             |
| mysql              |
| new_hyper          |
| performance_schema |
| phon               |
| pridetech          |
| python_batch       |
| smart              |
| sql_mzster         |
| sys                |
| wooden             |
| yup                |
| yup1               |
+--------------------+
20 rows in set (0.01 sec)

mysql> use innerjoin;
Database changed
mysql> show tables;
+---------------------+
| Tables_in_innerjoin |
+---------------------+
| auto                |
| bill                |
| businessman         |
| customer            |
| emp                 |
| employees           |
```

```
| final_bill          |
| intermediate        |
| orders              |
| pen                 |
| salesperson         |
| tanu                |
| workers             |
| xera                |
| zoom                |
+---------------------+
15 rows in set (0.01 sec)

mysql> select * from orders;
+----------+-----------+------------+-------------+-------------+
| order_no | purch_amt | order_date | customer_id | salesman_id |
+----------+-----------+------------+-------------+-------------+
|    70001 |       150 | 2020-10-05 |        3005 |        5002 |
|    70009 |       270 | 2020-09-10 |        3001 |        5005 |
|    70002 |        66 | 2020-10-05 |        3002 |        5001 |
|    70004 |       111 | 2020-08-17 |        3009 |        5003 |
|    70007 |       950 | 2020-09-10 |        3005 |        5002 |
|    70005 |      2400 | 2020-07-27 |        3007 |        5001 |
|    70008 |      5760 | 2020-09-10 |        3002 |        5001 |
|    70010 |      1990 | 2020-10-10 |        3004 |        5006 |
|    70003 |      2500 | 2020-10-10 |        3009 |        5003 |
|    70012 |       250 | 2020-06-27 |        3008 |        5002 |
|    70011 |        76 | 2020-08-17 |        3003 |        5007 |
|    70013 |      3045 | 2020-04-25 |        3002 |        5001 |
|    70014 |      1800 | 2020-07-25 |        3010 |        5007 |
|    70015 |      4646 | 2020-08-23 |        3012 |        5004 |
|    70015 |         0 | 2021-10-8  |       30013 |        5008 |
+----------+-----------+------------+-------------+-------------+
15 rows in set (0.00 sec)

mysql> select * from customer;
+-------------+-----------+-----------+-------+-------------+
| customer_id | cust_name | city      | grade | salesman_id |
+-------------+-----------+-----------+-------+-------------+
|        3001 | Brad      | London    |   100 |        5005 |
|        3002 | Nick      | New York  |   100 |        5001 |
|        3003 | Jozy      | Mascow    |   200 |        5007 |
|        3004 | Fabian    | Paris     |   300 |        5006 |
|        3005 | Graham    | Califoria |   200 |        5002 |
|        3007 | Brad      | New York  |   200 |        5001 |
|        3008 | Julian    | London    |   300 |        5002 |
|        3009 | Jeff      | Berlin    |   100 |        5003 |
```

```
      +-------------+-----------+-----------+-------+-------------+
8 rows in set (0.01 sec)

mysql> delimiter &&
mysql> CREATE TRIGGER TIG BEFORE INSERT ON customer FOR EACH ROW
    -> BEGIN
    -> IF NEW.grade<50 THEN SET NEW.grade=75;
    -> END IF;
    -> END &&
Query OK, 0 rows affected (0.02 sec)

mysql> &&
ERROR:
No query specified

mysql> SELECT * FROM CUSTOMER;
    -> &&
+-------------+-----------+-----------+-------+-------------+
| customer_id | cust_name | city      | grade | salesman_id |
+-------------+-----------+-----------+-------+-------------+
|        3001 | Brad      | London    |   100 |        5005 |
|        3002 | Nick      | New York  |   100 |        5001 |
|        3003 | Jozy      | Mascow    |   200 |        5007 |
|        3004 | Fabian    | Paris     |   300 |        5006 |
|        3005 | Graham    | Califoria |   200 |        5002 |
|        3007 | Brad      | New York  |   200 |        5001 |
|        3008 | Julian    | London    |   300 |        5002 |
|        3009 | Jeff      | Berlin    |   100 |        5003 |
+-------------+-----------+-----------+-------+-------------+
8 rows in set (0.00 sec)


mysql> INSERT INTO CUSTOMER VALUES(3010, 'Jasmine', 'Singapore',50, 5007);
    -> &&
Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM CUSTOMER;
    -> &&
+-------------+-----------+-----------+-------+-------------+
| customer_id | cust_name | city      | grade | salesman_id |
+-------------+-----------+-----------+-------+-------------+
|        3001 | Brad      | London    |   100 |        5005 |
|        3002 | Nick      | New York  |   100 |        5001 |
|        3003 | Jozy      | Mascow    |   200 |        5007 |
|        3004 | Fabian    | Paris     |   300 |        5006 |
```

```
|        3005 | Graham     | Califoria  |   200 |        5002 |
|        3007 | Brad       | New York   |   200 |        5001 |
|        3008 | Julian     | London     |   300 |        5002 |
|        3009 | Jeff       | Berlin     |   100 |        5003 |
|        3010 | Jasmine    | Singapore  |    50 |        5007 |
+-------------+------------+------------+-------+-------------+
9 rows in set (0.00 sec)

mysql> INSERT INTO CUSTOMER VALUES(3010, 'Jasmine', 'Singapore',40, 5007);
    -> &&
Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM CUSTOMER;
    -> &&
+-------------+------------+------------+-------+-------------+
| customer_id | cust_name  | city       | grade | salesman_id |
+-------------+------------+------------+-------+-------------+
|        3001 | Brad       | London     |   100 |        5005 |
|        3002 | Nick       | New York   |   100 |        5001 |
|        3003 | Jozy       | Mascow     |   200 |        5007 |
|        3004 | Fabian     | Paris      |   300 |        5006 |
|        3005 | Graham     | California |   200 |        5002 |
|        3007 | Brad       | New York   |   200 |        5001 |
|        3008 | Julian     | London     |   300 |        5002 |
|        3009 | Jeff       | Berlin     |   100 |        5003 |
|        3010 | Jasmine    | Singapore  |    50 |        5007 |
|        3010 | Jasmine    | Singapore  |    75 |        5007 |
+-------------+------------+------------+-------+-------------+
10 rows in set (0.00 sec)

mysql>
```

Billing Projects
Command on cmd:- pip install python