```
Setting environment for using XAMPP for Windows.
amit@DESKTOP-BSFH5IH c:\xampp
# mysql -u root -h localhost
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 40
Server version: 10.4.24-MariaDB mariadb.org binary distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]> show databases;
+----+
 Database
+----+
 demo
| information schema |
| mysql
| performance_schema |
phpmyadmin
test
+----+
6 rows in set (0.002 sec)
 Saving...
                                 udent;
MariaDB [(none)]> show databases;
+----+
 Database
 demo
 information schema
| mysql
performance schema
| phpmyadmin
student
| test
+----+
7 rows in set (0.001 sec)
MariaDB [(none)]> use Student;
Database changed
MariaDB [Student]> show tables;
Empty set (0.001 sec)
MariaDB [Student]> create table basic info(id int(2), name char(20), age int(2));
Query OK, 0 rows affected (1.262 sec)
MariaDB [Student]> show tables;
```

MariaDB [Student]> create table table academic\_info(id int(2), name char(20), marks int(2), s ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds t MariaDB [Student]> create table academic\_info(id int(2), name char(20), marks int(2), sem cha Query OK, 0 rows affected (0.252 sec)

2 rows in set (0.001 sec)

MariaDB [Student]> create table general\_info(id int(2), name char(2), address varchar(20), do Query OK, 0 rows affected (0.251 sec)

MariaDB [Student]> desc academic info;

| Field                            | +<br>  Type<br>+                               | Null            | Key | Default                            | Extra |
|----------------------------------|--|-----------------|-----|------------------------------------|-------|
| id<br>  name<br>  marks<br>  sem | int(2)<br>  char(20)<br>  int(2)<br>  char(20) | YES YES YES YES |     | NULL<br>  NULL<br>  NULL<br>  NULL |       |

4 rows in set (0.019 sec)

MariaDB [Student]> desc academic\_info

3 rows in set (0.018 sec)

```
MariaDB [Student]> create table stud_info(id int(20), name char(20));
ERROR 1050 (42S01): Table 'stud_info' already exists
MariaDB [Student]> desc general info;
```

| +               |  |            | <b></b>         |
|-----------------|--|------------|-----------------|
| Field           | Туре   | Null   Key | Default   Extra |
| name<br>address | int(2)<br>  char(2)<br>  varchar(20)<br>  date | YES        | NULL            |

5 rows in set (0.017 sec)

MariaDB [Student]> alter table general info modify name char(20); Query OK, 0 rows affected (1.448 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [Student]> desc general info;

| Field               | +<br>  Type<br>+       | Null   Key | Default   Extra  |
|---------------------|------------------------|------------|------------------|
| id<br>Saving        | int(2)                 | YES        | NULL    <br>NULL |
| aob<br>  family_mem | date<br>  int(20)<br>+ | YES        | NULL             |

5 rows in set (0.050 sec)

MariaDB [Student]> alter table general info add doj date; Query OK, 0 rows affected (0.152 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [Student]> desc general\_info;

| +               |  | +<br>  Null   Key<br>+ | ++<br>  Default   Extra |
|-----------------|--|------------------------|-------------------------|
| name<br>address | int(2)<br>  char(20)<br>  varchar(20)<br>  date<br>  int(20) | YES                    | NULL                    |

6 rows in set (0.011 sec)

MariaDB [Student]> alter table general\_info drop family\_mem; Query OK, 0 rows affected (0.127 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
MariaDB [Student]> desc general info;
+----+
               | Null | Key | Default | Extra |
Field
+----+---+---
      l NULL
     | char(20) | YES |
                       NULL
name
| address | varchar(20) | YES |
                       NULL
dob
     date
              | YES |
                       NULL
              | YES |
doj
     date
                       NULL
5 rows in set (0.014 sec)
MariaDB [Student]>
```

## 

```
Setting environment for using XAMPP for Windows.

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# mysql -u root -h localhost

mands end with; or \g.

Saving...

adb.org binary distribution
```

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> create database employee;

Query OK, 1 row affected (0.047 sec)

```
MariaDB [(none)]> show databases;

+------

| Databases |
| https://colab.research.google.com/drive/1oAp9nCpFoAzrkkZoistnzOsZ40Z1lhCD#scrollTo=I-pe7n0u0M16&printMode=true
```

```
10/2/22, 10:05 PM
                                           SQL.ipynb - Colaboratory
   ן שמנמטמשפ
    demo
    employee
    information schema
   | mysql
   | performance_schema |
   phpmyadmin
   student
   test
   8 rows in set (0.002 sec)
   MariaDB [(none)]> use employee;
   Database changed
   MariaDB [employee]> create table basic_info(emp_id int(5), emp_name char(5), emp_dob date, ag
   Query OK, 0 rows affected (0.495 sec)
   MariaDB [employee]> show tables;
   +----+
   | Tables in employee |
   | basic info
   +----+
   1 row in set (0.001 sec)
    Saving...
            | Type
                         | Null | Key | Default | Extra |
   +----+
   | YES |
   emp_name | char(5)
                         | YES
                                    NULL
                        | YES |
   emp dob | date
                                    NULL
         | int(3) | YES |
                                    NULL
   age
   address | varchar(30) | YES |
                                    NULL
   5 rows in set (0.090 sec)
   MariaDB [employee]> create table salary(emp_id int(20), emp_name char(20), dept char(20), des
   Query OK, 0 rows affected (0.371 sec)
   MariaDB [employee]> show tables;
   +----+
   | Tables_in_employee |
   | basic_info
   salary
   2 rows in set (0.001 sec)
   MariaDB [employee]> desc salary;
```

+----+

```
| Null | Key | Default | Extra |
| Field
            Type
 emp_id
            | int(20) | YES
                                 NULL
emp name
           | char(20) | YES
                                NULL
dept
           | char(20) | YES
                                NULL
designation | char(20) | YES
                                NULL
+----+
4 rows in set (0.018 sec)
MariaDB [employee]> show databses;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds t
MariaDB [employee]> show databases;
+----+
```

Database +----+ demo employee information schema | mysql performance schema | phpmyadmin student | test

8 nows in set (0 001 sec)

Saving...

id, name);

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds t MariaDB [employee]> rename table salary to emp\_salary; Query OK, 0 rows affected (3.585 sec)

```
MariaDB [employee]> desc salary;
ERROR 1146 (42S02): Table 'employee.salary' doesn't exist
MariaDB [employee]> desc emp_salary;
```

| +                                | +   | ++         | -+                  | ++    |
|----------------------------------|---|------------|---------------------|-------|
| Field                            | •   | Null   Key | •                   | Extra |
| emp_id emp_name dept designation | int(20)<br>  char(20)<br>  char(20)<br>  char(20) | YES        | NULL NULL NULL NULL |       |

4 rows in set (0.035 sec)

MariaDB [employee]> desc emp salary;

| + |                    | +                     | <b></b>    | ++              |  |
|---|--------------------|-----------------------|------------|-----------------|--|
|   | Field              | Туре                  | Null   Key | Default   Extra |  |
|   | emp_id<br>emp_name | int(20)<br>  char(20) | YES        | ++<br>  NULL    |  |
|   | dept               | char(20)              | YES        | NULL            |  |
| I | designation        | l char(20)            | l YFS      | I NULL I I      |  |

```
| designation | char(20) | his | | note | | |
```

4 rows in set (0.018 sec)

```
MariaDB [employee]> create table basic_info(comp_name char(20));
ERROR 1050 (42S01): Table 'basic_info' already exists
MariaDB [employee]> desc basic info;
```

| +                                   | +                             | +                   | +                   | <b></b>                  | +     |
|-------------------------------------|-------------------------------|---------------------|---------------------|--------------------------|-------|
| Field                               |                               | Null                | Key                 | Default                  | Extra |
| emp_id emp_name emp_dob age address | int(5)<br>  char(5)<br>  date | YES YES YES YES YES | <br> <br> <br> <br> | NULL NULL NULL NULL NULL |       |

5 rows in set (0.013 sec)

MariaDB [employee]> alter table basic\_info add doj date;
Query OK, 0 rows affected (0.450 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [employee]> desc basic info;

| Field | Туре  | Null                           | Key | Default                       | • |
|-------|---|--------------------------------|-----|-------------------------------|---|
| . 0   | date<br>  date<br>  int(3)<br>  varchar(30)<br>  date | YES<br>  YES<br>  YES<br>  YES | ×   | NULL NULL NULL NULL NULL NULL |   |

6 rows in set (0.028 sec)

MariaDB [employee]> alter table basic\_info add doj date; ERROR 1060 (42S21): Duplicate column name 'doj' MariaDB [employee]> alter table basic\_info add salary int(20); Query OK, 0 rows affected (0.441 sec) Records: 0 Duplicates: 0 Warnings: 0

MariaDB [employee]> desc basic\_info;

| 4 | +        |             | <b>+</b> | L <del>_</del> |         |       |
|---|----------|-------------|----------|----------------|---------|-------|
| 1 | Field    | Туре        | Null     | Key            | Default | Extra |
|   | emp_id   | * *         | YES      |                | NULL    |       |
|   | emp_name | char(5)     | YES      |                | NULL    |       |
|   | emp_dob  | date        | YES      |                | NULL    |       |
|   | age      | int(3)      | YES      |                | NULL    |       |
|   | address  | varchar(30) | YES      |                | NULL    |       |
|   | doj      | date        | YES      |                | NULL    |       |
|   | salary   | int(20)     | YES      |                | NULL    |       |

```
SQL.ipynb - Colaboratory
+----+
7 rows in set (0.018 sec)
MariaDB [employee]> alter table basic info modify emp name varchar(20);
Query OK, 0 rows affected (1.201 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [employee]> desc basic info;
+----+
                      | Null | Key | Default | Extra |
 emp id
         | int(5)
                      YES
                                   NULL
                                  NULL
emp name | varchar(20) | YES
| emp_dob | date
                                  NULL
                      YES
         | int(3)
                      | YES
                                  NULL
 age
 address | varchar(30) | YES
                                  NULL
 doi
         date
                      YES
                                  NULL
 salary
         | int(20)
                      | YES
                                  NULL
7 rows in set (0.014 sec)
MariaDB [employee]> alter table basic_info add(age1 int(4),salary1 int(5));
Query OK, 0 rows affected (0.211 sec)
Records: 0 Duplicates: 0 Warnings: 0
 Saving...
                                c info modify age int(4), modify salary int(5);
Query OK, 0 rows affected (0.075 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [employee]> alter table basic_info modify age int(4),modify salary int(5),add sal int
Ouery OK, 0 rows affected (0.277 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [employee]> desc basic info;
ERROR 1146 (42S02): Table 'employee.basic' doesn't exist
MariaDB [employee]> desc basic info;
+----+
                      | Null | Key | Default | Extra |
| Field
 emp id
         | int(5)
                      | YES
                                   NULL
 emp name | varchar(20) | YES
                                  NULL
emp_dob | date
                      YES
                                  NULL
         | int(4)
                      | YES
                                  NULL
age
 address | varchar(30) | YES
                                  NULL
doj
         date
                      YES
                                  NULL
 salary
                      YES
                                  NULL
         | int(5)
 age1
         | int(4)
                      | YES
                                  NULL
                                  NULL
 salary1 | int(5)
                      | YES
         | int(6)
                      | YES
                                   NULL
```

10 rows in set (0.012 sec)

MariaDB [employee]> alter table basic info drop(age1,salary1)

```
-> ;
   ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds t
   MariaDB [employee]> alter table basic info drop age1,drop salary1;
   Query OK, 0 rows affected (0.196 sec)
   Records: 0 Duplicates: 0 Warnings: 0
   MariaDB [employee]> desc basic info;
   ERROR 1146 (42S02): Table 'employee.basic' doesn't exist
   MariaDB [employee]> desc basic_info;
   +-----
   | Field
                          | Null | Key | Default | Extra |
             Type
   emp id
             | int(5)
                          YES
                                      l null
   emp_name | varchar(20) | YES
                                      NULL
   emp dob | date
                                      NULL
                          | YES
             | int(4)
                          YES
                                      NULL
   age
   address | varchar(30) | YES
                                      NULL
            | date
                          | YES
                                      NULL
   doj
   salary
             | int(5)
                          | YES
                                      NULL
                                      NULL
   sal
             | int(6)
                          YES
   8 rows in set (0.012 sec)
                                    c_info drop sal;
    Saving...
   Records: 0 Duplicates: 0 Warnings: 0
   MariaDB [employee]>
   MariaDB [employee]> show tables;
   +----+
    Tables in employee |
   +----+
   | basic info
   1 row in set (0.001 sec)
   MariaDB [employee]> insert into basic info values(4, 'Aransh', "12-04-1999", 24, 'India', '12-10-2
   Query OK, 1 row affected, 2 warnings (0.072 sec)
   MariaDB [employee]> desc basic_info;
   +----+
                          | Null | Key | Default | Extra |
     Field
https://colab.research.google.com/drive/1oAp9nCpFoAzrkkZoistnzOsZ40Z1lhCD#scrollTo=I-pe7n0u0M16&printMode=true
                                                                                      10/15
```

| emp_ıa   | 1NT(5)      | YES | NULL | 1  |    |
|----------|-------------|-----|------|----|----|
| emp_name | varchar(20) | YES | NULL |    |    |
| emp_dob  | date        | YES | NULL |    |    |
| age      | int(4)      | YES | NULL |    |    |
| address  | varchar(30) | YES | NULL |    |    |
| doj      | date        | YES | NULL |    |    |
| salary   | int(5)      | YES | NULL |    |    |
| +        | +           | +   | -+   | -+ | -+ |

7 rows in set (0.048 sec)

MariaDB [employee]> insert into basic\_info(emp\_id,emp\_name,age) values(5,'Roshana',29);
Query OK, 1 row affected (0.085 sec)

MariaDB [employee]> insert into basic\_info(emp\_id,emp\_name,salary) values(5,'Roshana',1000000 Query OK, 1 row affected (0.070 sec)

MariaDB [employee]> desc basic\_info;

| ++<br>  Field | Type                | +-<br>  Null  <br> | +<br>Key | Default                            | Extra |
|---------------|---------------------|--------------------|----------|------------------------------------|-------|
| emp_dob       | varchar(20)<br>date | YES                |          | NULL NULL NULL NULL NULL NULL NULL |       |

7 rows in set (0.015 sec)

MariaDB [employee]> select \* from basic\_info;

| emp_id   emp_name  | +<br>  emp_dob<br>+  | <br>  age<br>        | address                               | doj  | salary  | +<br> <br>- |
|--|--|----------------------|---------------------------------------|--|---|-------------|
| 1   Amit<br>  2   Pawan<br>  3   Priya<br>  4   Aransh<br>  5   Roshana<br>  5   Roshana | 0000-00-00<br>  0000-00-00<br>  0000-00-00<br>  0000-00-00<br>  NULL<br>  NULL | 31<br>25<br>24<br>29 | India<br>  India<br>  India<br>  NULL | 0000-00-00<br>  0000-00-00<br>  0000-00-00<br>  0000-00-00<br>  NULL | 200000<br>  100000<br>  300000<br>  150000<br>  NULL<br>  1000000 |             |

6 rows in set (0.000 sec)

MariaDB [employee]> update basic\_info set age=30;

Query OK, 5 rows affected (0.058 sec)

Rows matched: 6 Changed: 5 Warnings: 0

MariaDB [employee]> select \* from basic\_info;

|  | emp_id | emp_name | emp_dob | age | address | +<br>  doj<br>+ | salary |  |
|--|--------|----------|---------|-----|---------|-----------------|--------|--|
|  |        |          | -       |     |         | 0000-00-00      |        |  |

```
SQL.ipynb - Colaboratory
      2 | Pawan
                   | 0000-00-00 |
                                   30 | India
                                                | 0000-00-00 |
                                                               100000
      3 | Priya
                   0000-00-00
                                   30 | India
                                                | 0000-00-00 |
                                                               300000
      4 | Aransh
                   0000-00-00
                                   30 | India
                                                0000-00-00
                                                               150000
                                                                 NULL I
      5 | Roshana
                   l NULL
                                   30 | NULL
                                                NULL
      5 | Roshana
                   NULL
                                   30 | NULL
                                                NULL
                                                            1000000
6 rows in set (0.000 sec)
MariaDB [employee]> update basic info set age=31 where name="Pawan;
   ->
   ->
   ->
   ->
   -> ::;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds t
MariaDB [employee]> update basic info set age=31 where name="Pawan";
ERROR 1054 (42S22): Unknown column 'name' in 'where clause'
MariaDB [employee]> update basic info set age=31 where emp name="Pawan";
Query OK, 1 row affected (0.059 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [employee]> select * from basic info;
+----+
| amm id | amm nama | amm dah
                               └─ge | address | doj
                                                            | salary
 Saving...
                                   30 | India
                                                0000-00-00
                                                               200000
      2 | Pawan
                     0000-00-00
                                   31 | India
                                                | 0000-00-00 |
                                                               100000
                                                0000-00-00
      3 | Priva
                   | 0000-00-00 |
                                   30 | India
                                                               300000
      4 | Aransh
                   | 0000-00-00 |
                                   30 | India
                                                | 0000-00-00 |
                                                               150000
      5 | Roshana
                   NULL
                                   30 | NULL
                                                NULL
                                                                 NULL |
                                   30 | NULL
      5 | Roshana
                  NULL
                                                NULL
                                                            | 1000000 |
6 rows in set (0.000 sec)
MariaDB [employee] > update basic info set doj = '2021-09-09' where emp name='Amit';
Query OK, 1 row affected (0.052 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

MariaDB [employee]> select \* from basic\_info;

| 1   Amit |  | emp_id                        | emp_name   | · · —  | age                                    | address  | doj  | salary  |
|----------|--|-------------------------------|--|--|--|--|--|---|
| +        |  | 1  <br>2  <br>3  <br>4  <br>5 | Amit<br>Pawan<br>Priya<br>Aransh<br>Roshana<br>Roshana | 0000-00-00<br>  0000-00-00<br>  0000-00-00<br>  0000-00-00<br>  NULL | 30<br>31<br>30<br>30<br>30<br>30<br>30 | India<br>  India<br>  India<br>  India<br>  NULL<br>  NULL | 2021-09-09<br>0000-00-00<br>0000-00-00<br>0000-00-00<br>NULL<br>NULL | 200000  <br>  100000  <br>  300000  <br>  150000  <br>  NULL  <br>  1000000 |

6 rows in set (0.000 sec)

MariaDB [employee]> update basic\_info set id=6 where salary=1000000; ERROR 1054 (42S22): Unknown column 'id' in 'field list' MariaDB [employee]> update basic\_info set emp\_id=6 where salary=1000000; Query OK, 1 row affected (0.107 sec) Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [employee]> select \* from basic info;

| emp_id emp_  |  | age                | address  | doj  | <br>  salary  | • |
|--|--|--------------------|--|--|---|---|
| 1   Amit<br>  2   Pawa<br>  3   Priy<br>  4   Arar<br>  5   Rost<br>  6   Rost | 0000-00-00<br>  0000-00-00<br>  0000-00-00<br>  0000-00-00<br>  NULL | 30<br>  31<br>  30 | India<br>  India<br>  India<br>  India<br>  NULL | 2021-09-09<br>  0000-00-00<br>  0000-00-00<br>  0000-00-00<br>  NULL<br>  NULL | 200000<br>  100000<br>  300000<br>  150000<br>  NULL<br>  1000000 |   |

6 rows in set (0.001 sec)

MariaDB [employee]> update basic\_info set salary = 2500000 where emp\_id=5; Query OK, 1 row affected (0.062 sec)

Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [employee]> select \* from basic\_info;

| Savin | g |         |            | ×  | ge | address | <br>  doj<br> | ++<br>  salary  <br>++ |  |
|-------|---|---------|------------|----|----|---------|---------------|------------------------|--|
| Ī     | 1 | Amit    | 0000-00-00 |    | 30 | India   | 2021-09-09    | 200000                 |  |
|       | 2 | Pawan   | 0000-00-00 |    | 31 | India   | 0000-00-00    | 100000                 |  |
|       | 3 | Priya   | 0000-00-00 |    | 30 | India   | 0000-00-00    | 300000                 |  |
|       | 4 | Aransh  | 0000-00-00 |    | 30 | India   | 0000-00-00    | 150000                 |  |
|       | 5 | Roshana | NULL       |    | 30 | NULL    | NULL          | 2500000                |  |
|       | 6 | Roshana | NULL       |    | 30 | NULL    | NULL          | 1000000                |  |
| +     | + |         | +          | +- |    |         |               | ++                     |  |

6 rows in set (0.000 sec)

MariaDB [employee]>

MariaDB [employee]> delete from basic\_info where id=6; ERROR 1054 (42S22): Unknown column 'id' in 'where clause' MariaDB [employee]> delete from basic\_info where emp\_id=6; Query OK, 1 row affected (0.058 sec)

MariaDB [employee]> select \* from basic info;

| emp_ | +id   emp_name        | emp_dob                    | age | address | doj                        | salary |
|------|-----------------------|----------------------------|-----|---------|----------------------------|--------|
|      | 1   Amit<br>2   Pawan | 0000-00-00<br>  0000-00-00 | 30  | India   | 2021-09-09<br>  0000-00-00 | 200000 |

| 4   Aransh   0000-00-00   30   India   0000-00-00   15000<br>  5   Roshana   NULL   30   NULL   NULL   250000 | ] 3 | Priya   | 0000-00-00 | 30 | India | 0000-00-00 | 300000  |  |
|---|-----|---------|------------|----|-------|------------|---------|--|
| 5   Roshana   NULL   30   NULL   NULL   250000  | 4   | Aransh  | 0000-00-00 | 30 | India | 0000-00-00 | 150000  |  |
|   | 5   | Roshana | NULL       | 30 | NULL  | NULL       | 2500000 |  |

+-----

5 rows in set (0.000 sec)

MariaDB [employee]> delete from basic\_info where emp\_id>=4;
Query OK, 2 rows affected (0.084 sec)

MariaDB [employee]> select \* from basic\_info;

| emp_id   emp_name       | emp_dob                                | age   address                              | doj                                    | salary                             |
|-------------------------|--|--|--|------------------------------------|
| 1   Amit<br>  2   Pawan | 0000-00-00<br>0000-00-00<br>0000-00-00 | 30   India<br>  31   India<br>  30   India | 2021-09-09<br>0000-00-00<br>0000-00-00 | 200000  <br>  100000  <br>  300000 |

3 rows in set (0.000 sec)

MariaDB [employee]> delete from basic\_info;
Query OK, 3 rows affected (0.144 sec)

MariaDB [employee]> select \* from basic\_info; Empty set (0.000 sec)



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×

