

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 8

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;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to

MariaDB [(none)]> show databases;

```
+-----+
| Database          |
+-----+
| demo              |
| employee          |
| information_schema |
| mysql             |
| performance_schema |
| phpmyadmin        |
| student           |
| test              |
+-----+
```

8 rows in set (0.840 sec)

MariaDB [(none)]> use employee;

Database changed

MariaDB [employee]> show tables;

```
+-----+
| Tables_in_employee |
+-----+
| basic_info          |
+-----+
```

1 row in set (0.044 sec)

MariaDB [employee]> desc basic\_info;

```
+-----+-----+-----+-----+-----+-----+
| Field  | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| emp_id | int(5)    | YES  |     | NULL    |       |
| 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 (0.412 sec)
```

```
MariaDB [employee]> select * from basic_info;
Empty set (0.374 sec)
```

```
MariaDB [employee]> create table movies (id int(3), fname char(20), lname char(20), movie_id
Query OK, 0 rows affected (0.647 sec)
```

```
MariaDB [employee]> insert into movies values(&id,&fname,&lname, &movie_id);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds t
MariaDB [employee]> insert into movies values('&id','&fname','&lname', '&movie_id');
Query OK, 1 row affected, 2 warnings (0.174 sec)
```

```
MariaDB [employee]> insert into movies values(1,'amit','G','1');
'> ';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds t
MariaDB [employee]> insert into movies values(1,'amit','G',1);
Query OK, 1 row affected (0.116 sec)
```

```
MariaDB [employee]> insert into movies values(2,'Ravi','GA',2);
Query OK, 1 row affected (0.076 sec)
```

```
MariaDB [employee]> insert into movies values(3,'Priya','GAW',5);
Query OK, 1 row affected (0.073 sec)
```

```
MariaDB [employee]> insert into movies values(4,'PAwa','GAWA',8);
Query OK, 1 row affected (0.057 sec)
```

```
MariaDB [employee]> insert into movies values(6,'Aru','GAWAD',10);
Query OK, 1 row affected (0.080 sec)
```

```
MariaDB [employee]> select * from movies;
```

```
+-----+-----+-----+-----+
| id    | fname | lname | movie_id |
+-----+-----+-----+-----+
| 0     | &fname | &lname | 0         |
| 1     | amit  | G      | 1         |
| 2     | Ravi  | GA     | 2         |
| 3     | Priya | GAW    | 5         |
| 4     | PAwa  | GAWA   | 8         |
| 6     | Aru   | GAWAD  | 10        |
+-----+-----+-----+-----+
6 rows in set (0.007 sec)
```

```
MariaDB [employee]> delete from movies where id =0;
Query OK, 1 row affected (0.159 sec)
```

```
MariaDB [employee]> select * from movies;
```

```
+-----+-----+-----+-----+
| id    | fname | lname | movie_id |
+-----+-----+-----+-----+
```

1	amit	G	1
2	Ravi	GA	2
3	Priya	GAW	5
4	PAwa	GAWA	8
6	Aru	GAWAD	10

```
+-----+-----+-----+-----+
```

5 rows in set (0.001 sec)

```
MariaDB [employee]> create table members(id int(3), title char(20),category char(20));
Query OK, 0 rows affected (0.826 sec)
```

```
MariaDB [employee]> insert into members values(1,"The Real Person",'Animation');
Query OK, 1 row affected (0.251 sec)
```

```
MariaDB [employee]> insert into members values(2,"Real Steel",'Animation');
Query OK, 1 row affected (0.072 sec)
```

```
MariaDB [employee]> insert into members values(3,"RAONE",'Action');
Query OK, 1 row affected (0.097 sec)
```

```
MariaDB [employee]> insert into members values(4,"Safe House",'Action');
Query OK, 1 row affected (0.069 sec)
```

```
MariaDB [employee]> insert into members values(5,"Deadline",'18+');
Query OK, 1 row affected (0.077 sec)
```

```
MariaDB [employee]> select * from members;
```

id	title	category
1	The Real Person	Animation
2	Real Steel	Animation
3	RAONE	Action
4	Safe House	Action
5	Deadline	18+

```
+-----+-----+-----+-----+
```

5 rows in set (0.000 sec)

```
MariaDB [employee]> select * from movies CROSS JOIN members;
```

id	fname	lname	movie_id	id	title	category
1	amit	G	1	1	The Real Person	Animation
2	Ravi	GA	2	1	The Real Person	Animation
3	Priya	GAW	5	1	The Real Person	Animation
4	PAwa	GAWA	8	1	The Real Person	Animation
6	Aru	GAWAD	10	1	The Real Person	Animation
1	amit	G	1	2	Real Steel	Animation
2	Ravi	GA	2	2	Real Steel	Animation
3	Priya	GAW	5	2	Real Steel	Animation
4	PAwa	GAWA	8	2	Real Steel	Animation

6	Aru	GAWAD	10	2	Real Steel	Animation
1	amit	G	1	3	RAONE	Action
2	Ravi	GA	2	3	RAONE	Action
3	Priya	GAW	5	3	RAONE	Action
4	PAwa	GAWA	8	3	RAONE	Action
6	Aru	GAWAD	10	3	RAONE	Action
1	amit	G	1	4	Safe House	Action
2	Ravi	GA	2	4	Safe House	Action
3	Priya	GAW	5	4	Safe House	Action
4	PAwa	GAWA	8	4	Safe House	Action
6	Aru	GAWAD	10	4	Safe House	Action
1	amit	G	1	5	Deadline	18+
2	Ravi	GA	2	5	Deadline	18+
3	Priya	GAW	5	5	Deadline	18+
4	PAwa	GAWA	8	5	Deadline	18+
6	Aru	GAWAD	10	5	Deadline	18+

+-----+-----+-----+-----+-----+-----+-----+-----+  
 25 rows in set (0.064 sec)

MariaDB [employee]> select movies.fname movies.lname members.title from movies,members where  
 ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds t  
 MariaDB [employee]> select movies.fname,movies.lname,members.title from movies,members where

fname	lname	title
amit	G	The Real Person
Ravi	GA	Real Steel
Priya	GAW	RAONE
PAwa	GAWA	Safe House

+-----+-----+-----+-----+  
 4 rows in set (0.106 sec)

MariaDB [employee]> select movies.fname,movies.lname,members.title from movies,members where  
 ERROR 1054 (42S22): Unknown column '2members.id' in 'where clause'  
 MariaDB [employee]> select movies.fname,movies.lname,members.title from movies,members where  
 ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds t  
 MariaDB [employee]> select movies.fname,movies.lname,members.title from movies,members where  
 ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds t  
 MariaDB [employee]> select movies.fname,movies.lname,members.title from movies,members where

fname	lname	title
amit	G	The Real Person
amit	G	Real Steel
Ravi	GA	Real Steel
amit	G	RAONE
Ravi	GA	RAONE
Priya	GAW	RAONE
amit	G	Safe House
Ravi	GA	Safe House
Priya	GAW	Safe House
PAwa	GAWA	Safe House

amit	G	Deadline
Ravi	GA	Deadline
Priya	GAW	Deadline
PAwa	GAWA	Deadline

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

14 rows in set (0.030 sec)

MariaDB [employee]> select movies.fname,movies.lname,members.title from movies,members where

fname	lname	title
amit	G	The Real Person
Ravi	GA	The Real Person
Priya	GAW	The Real Person
PAwa	GAWA	The Real Person
Aru	GAWAD	The Real Person
Ravi	GA	Real Steel
Priya	GAW	Real Steel
PAwa	GAWA	Real Steel
Aru	GAWAD	Real Steel
Priya	GAW	RAONE
PAwa	GAWA	RAONE
Aru	GAWAD	RAONE
PAwa	GAWA	Safe House
Aru	GAWAD	Safe House
Aru	GAWAD	Deadline

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

15 rows in set (0.000 sec)

MariaDB [employee]> select movies.fname,movies.lname,members.title from movies outer join mem  
 ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to  
 MariaDB [employee]> select movies.fname,movies.lname,members.title from movies outer join mem  
 ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to  
 MariaDB [employee]> select M.fname,M.lname, A.title from movies as M LEFT JOIN members as A ON

fname	lname	title
amit	G	The Real Person
Ravi	GA	Real Steel
Priya	GAW	RAONE
PAwa	GAWA	Safe House
Aru	GAWAD	NULL

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

5 rows in set (0.038 sec)

MariaDB [employee]> select \* from movies LEFT JOIN members ON M.id =A.id;  
 ERROR 1054 (42S22): Unknown column 'M.id' in 'on clause'  
 MariaDB [employee]> select \* from movies LEFT JOIN members ON id =id;  
 ERROR 1052 (23000): Column 'id' in on clause is ambiguous  
 MariaDB [employee]> select \* from movies LEFT JOIN members ON members.id=movies.id;

id	fname	lname	movie_id	id	title	category
----	-------	-------	----------	----	-------	----------

id	fname	lname	movie_id	id	title	category
1	amit	G	1	1	The Real Person	Animation
2	Ravi	GA	2	2	Real Steel	Animation
3	Priya	GAW	5	3	RAONE	Action
4	PAwa	GAWA	8	4	Safe House	Action
6	Aru	GAWAD	10	NULL	NULL	NULL

5 rows in set (0.001 sec)

MariaDB [employee]> select \* from movies LEFT JOIN members ON members.id=movies.movie\_id;

id	fname	lname	movie_id	id	title	category
1	amit	G	1	1	The Real Person	Animation
2	Ravi	GA	2	2	Real Steel	Animation
3	Priya	GAW	5	5	Deadline	18+
4	PAwa	GAWA	8	NULL	NULL	NULL
6	Aru	GAWAD	10	NULL	NULL	NULL

5 rows in set (0.001 sec)

MariaDB [employee]> desc movies;

Field	Type	Null	Key	Default	Extra
id	int(3)	YES		NULL	
fname	char(20)	YES		NULL	
lname	char(20)	YES		NULL	
movie_id	int(3)	YES		NULL	

4 rows in set (0.187 sec)

MariaDB [employee]> desc members

-> ;

Field	Type	Null	Key	Default	Extra
id	int(3)	YES		NULL	
title	char(20)	YES		NULL	
category	char(20)	YES		NULL	

3 rows in set (0.088 sec)

MariaDB [employee]> select \* from movies LEFT JOIN members ON movies.id = members.id;

id	fname	lname	movie_id	id	title	category
1	amit	G	1	1	The Real Person	Animation
2	Ravi	GA	2	2	Real Steel	Animation
3	Priya	GAW	5	3	RAONE	Action
4	PAwa	GAWA	8	4	Safe House	Action

```
| 6 | Aru | GAWAD | 10 | NULL | NULL | NULL |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.001 sec)
```

MariaDB [employee]> select \* from movies LEFT JOIN members ON movies.movie\_id = members.id;

```
+-----+-----+-----+-----+-----+-----+-----+
| id | fname | lname | movie_id | id | title | category |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | amit | G | 1 | 1 | The Real Person | Animation |
| 2 | Ravi | GA | 2 | 2 | Real Steel | Animation |
| 3 | Priya | GAW | 5 | 5 | Deadline | 18+ |
| 4 | PAwa | GAWA | 8 | NULL | NULL | NULL |
| 6 | Aru | GAWAD | 10 | NULL | NULL | NULL |
+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.001 sec)
```

MariaDB [employee]> select \* from movies RIGHT JOIN members ON movies.movie\_id = members.id;

```
+-----+-----+-----+-----+-----+-----+-----+
| id | fname | lname | movie_id | id | title | category |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | amit | G | 1 | 1 | The Real Person | Animation |
| 2 | Ravi | GA | 2 | 2 | Real Steel | Animation |
| 3 | Priya | GAW | 5 | 5 | Deadline | 18+ |
| NULL | NULL | NULL | NULL | 3 | RAONE | Action |
| NULL | NULL | NULL | NULL | 4 | Safe House | Action |
+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.001 sec)
```

MariaDB [employee]> alter table movies modify id int(2) primary key;

Query OK, 0 rows affected (2.469 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [employee]> desc movies;

```
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id | int(2) | NO | PRI | NULL | |
| fname | char(20) | YES | | NULL | |
| lname | char(20) | YES | | NULL | |
| movie_id | int(3) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.110 sec)
```

MariaDB [employee]> insert into movies values(1,'Amit','GA',1);

ERROR 1062 (23000): Duplicate entry '1' for key 'PRIMARY'

MariaDB [employee]> insert into movies values(5,'Amit','GA',1);

Query OK, 1 row affected (0.097 sec)

MariaDB [employee]> select \* from movies;

```
+-----+-----+-----+-----+
| id | fname | lname | movie_id |
+-----+-----+-----+-----+
```

1	amit	G	1
2	Ravi	GA	2
3	Priya	GAW	5
4	PAwa	GAWA	8
5	Amit	GA	1
6	Aru	GAWAD	10

6 rows in set (0.000 sec)

```
MariaDB [employee]> alter table members modify id int(2) references id(movies);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to
MariaDB [employee]> alter table members modify id int(2) foreignkey references movies(id);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to
MariaDB [employee]> alter table members modify id int(2) foreign key references movies(id);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to
MariaDB [employee]> alter table members modify id int foreign key references movies(id);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to
MariaDB [employee]> alter table members modify id int(2) FOREIGN KEY references movies(id);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to
MariaDB [employee]> alter table members modify (id int(2) FOREIGN KEY references movies(id))
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to
MariaDB [employee]> create table mem (id int(2) FOREIGN KEY references movies(id),name char(20))
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to
MariaDB [employee]> create table mem (id int(2),FOREIGN KEY(id) references movies(id),name char(20))
Query OK, 0 rows affected (1.166 sec)
```

```
MariaDB [employee]> alter table members modify (id int(2), FOREIGN KEY(id) references movies(id))
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to
MariaDB [employee]> alter table members modify id int(2), FOREIGN KEY(id) references movies(id)
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to
MariaDB [employee]> desc mem;
```

Field	Type	Null	Key	Default	Extra
id	int(2)	YES	MUL	NULL	
name	char(20)	YES		NULL	

2 rows in set (0.037 sec)

```
MariaDB [employee]> desc movies;
```

Field	Type	Null	Key	Default	Extra
id	int(2)	NO	PRI	NULL	
fname	char(20)	YES		NULL	
lname	char(20)	YES		NULL	
movie_id	int(3)	YES		NULL	

4 rows in set (0.046 sec)

```
MariaDB [employee]> select * from movies;
```



```

+----+-----+-----+-----+
| id | fname | lname | movie_id |
+----+-----+-----+-----+
| 1 | amit | G | 1 |
| 2 | Ravi | GA | 2 |
| 3 | Priya | GAW | 5 |
| 4 | PAwa | GAWA | 8 |
| 5 | Amit | GA | 1 |
| 6 | Aru | GAWAD | 10 |
+----+-----+-----+-----+
6 rows in set (0.001 sec)

```

```

MariaDB [employee]> insert into mem values(10,'Amit');
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`employ
MariaDB [employee]> insert into mem values(1,'Amit');
Query OK, 1 row affected (0.094 sec)

```

```

MariaDB [employee]> insert into mem values(2,'Amit');
Query OK, 1 row affected (0.097 sec)

```

```

MariaDB [employee]> insert into mem values(21,'Amit');
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`employ
MariaDB [employee]> select * from movies where fanme like 's%';
ERROR 1054 (42S22): Unknown column 'fanme' in 'where clause'
MariaDB [employee]> select * from movies where fname like 's%';
Empty set (0.064 sec)

```

```

MariaDB [employee]> select * from movies where fname like 'a%';
+----+-----+-----+-----+
| id | fname | lname | movie_id |
+----+-----+-----+-----+
| 1 | amit | G | 1 |
| 5 | Amit | GA | 1 |
| 6 | Aru | GAWAD | 10 |
+----+-----+-----+-----+
3 rows in set (0.001 sec)

```

```

MariaDB [employee]> select * from movies where fname like 'p%';
+----+-----+-----+-----+
| id | fname | lname | movie_id |
+----+-----+-----+-----+
| 3 | Priya | GAW | 5 |
| 4 | PAwa | GAWA | 8 |
+----+-----+-----+-----+
2 rows in set (0.000 sec)

```

```

MariaDB [employee]> select * from movies where fname like '%p';
Empty set (0.000 sec)

```

```

MariaDB [employee]> select * from movies where fname like '%t';
+----+-----+-----+-----+
| id | fname | lname | movie id |

```

```

+-----+-----+-----+-----+
| 1 | amit | G | 1 |
| 5 | Amit | GA | 1 |
+-----+-----+-----+
2 rows in set (0.001 sec)

```

```

MariaDB [employee]> select * from movies where movie_id like '%6';
Empty set (0.001 sec)

```

```

MariaDB [employee]> select * from movies where movie_id like %6;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds t
MariaDB [employee]> select * from movies where movie_id like 6%;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds t
MariaDB [employee]> select * from movies where movie_id like '6%';
Empty set (0.000 sec)

```

```

MariaDB [employee]> select * from movies where movie_id between 1 to 10;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds t
MariaDB [employee]> select * from movies where movie_id between 1 and 10;

```

```

+-----+-----+-----+-----+
| id | fname | lname | movie_id |
+-----+-----+-----+-----+
| 1 | amit | G | 1 |
| 2 | Ravi | GA | 2 |
| 3 | Priya | GAW | 5 |
| 4 | PAwa | GAWA | 8 |
| 5 | Amit | GA | 1 |
| 6 | Aru | GAWAD | 10 |
+-----+-----+-----+-----+
6 rows in set (0.088 sec)

```

```

MariaDB [employee]> select * from movies where movie_id between 10 and 101;
+-----+-----+-----+-----+
| id | fname | lname | movie_id |
+-----+-----+-----+-----+
| 6 | Aru | GAWAD | 10 |
+-----+-----+-----+-----+
1 row in set (0.000 sec)

```

```

MariaDB [employee]> select * from movies where movie_id like '%a%';
Empty set (0.000 sec)

```

```

MariaDB [employee]> select * from movies where movie_id like '%i%';
Empty set (0.000 sec)

```

```

MariaDB [employee]> select * from movies where fname like '%i%';
+-----+-----+-----+-----+
| id | fname | lname | movie_id |
+-----+-----+-----+-----+
| 1 | amit | G | 1 |
| 2 | Ravi | GA | 2 |
| 3 | Priya | GAW | 5 |
| 4 | PAwa | GAWA | 8 |
| 5 | Amit | GA | 1 |
| 6 | Aru | GAWAD | 10 |
+-----+-----+-----+-----+

```

```
| 3 | Priya | GAW | 5 |
| 5 | Amit | GA | 1 |
+-----+
4 rows in set (0.001 sec)
```

MariaDB [employee]> select \* from movies where fname like '%i';

```
+-----+
| id | fname | lname | movie_id |
+-----+
| 2 | Ravi | GA | 2 |
+-----+
1 row in set (0.001 sec)
```

MariaDB [employee]> select \* from movies where fname like '%a%';

```
+-----+
| id | fname | lname | movie_id |
+-----+
| 1 | amit | G | 1 |
| 2 | Ravi | GA | 2 |
| 3 | Priya | GAW | 5 |
| 4 | PAwa | GAWA | 8 |
| 5 | Amit | GA | 1 |
| 6 | Aru | GAWAD | 10 |
+-----+
6 rows in set (0.000 sec)
```

MariaDB [employee]> select \* from movies where id in(1,2,3);

```
+-----+
| id | fname | lname | movie_id |
+-----+
| 1 | amit | G | 1 |
| 2 | Ravi | GA | 2 |
| 3 | Priya | GAW | 5 |
+-----+
3 rows in set (0.128 sec)
```

MariaDB [employee]> select fname from movies where exist (select id from members where member  
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to  
MariaDB [employee]> select fname from movies where exists (select id from members where membe

```
+-----+
| fname |
+-----+
| amit |
| Ravi |
| Priya |
| PAwa |
| Amit |
+-----+
5 rows in set (0.074 sec)
```

MariaDB [employee]> select fname from movies where exists (select id from members where membe  
Empty set (0.001 sec)

```
MariaDB [employee]> show tabs;
ERROR 2006 (HY000): MySQL server has gone away
No connection. Trying to reconnect...
Connection id: 9
Current database: employee
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to
MariaDB [employee]> show tables;
```

```
+-----+
| Tables_in_employee |
+-----+
| basic_info         |
| mem                |
| members            |
| movies             |
+-----+
4 rows in set (0.037 sec)
```

```
MariaDB [employee]> show tables;
```

```
+-----+
| Tables_in_employee |
+-----+
| basic_info         |
| mem                |
| members            |
| movies             |
+-----+
4 rows in set (0.001 sec)
```

```
MariaDB [employee]> select * from basic_info;
Empty set (0.121 sec)
```

```
MariaDB [employee]> desc basic_info;
```

```
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| emp_id     | int(5)        | YES  |     | NULL    |       |
| 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 (0.231 sec)
```

```
MariaDB [employee]> insert into basic_info values(1,'amit','1990-01-02',30,'India','2019-01-1
Query OK, 1 row affected (0.240 sec)
```

```
MariaDB [employee]> insert into basic_info values(1,'amit','1990-02-02',31,'India','2019-01-1
Query OK, 1 row affected (0.079 sec)
```

Query OK, 1 row affected (0.073 sec)

MariaDB [employee]> insert into basic\_info values(2,'pawam','03-02-02',31,'UK','2019-03-12',2  
Query OK, 1 row affected (0.084 sec)

MariaDB [employee]> insert into basic\_info values(3,'pawam','1898-02-02',33,'US','2012-07-12'  
Query OK, 1 row affected (0.063 sec)

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

emp_id	emp_name	emp_dob	age	address	doj	salary
1	amit	1990-01-02	30	India	2019-01-11	1000000
1	amit	1990-02-02	31	India	2019-01-12	100000
2	pawam	2003-02-02	31	UK	2019-03-12	200000
3	pawam	1898-02-02	33	US	2012-07-12	20000

4 rows in set (0.001 sec)

MariaDB [employee]> insert into basic\_info values(4,'pawa','1858-02-02',34,'US','2015-07-12',  
Query OK, 1 row affected (0.071 sec)

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

emp_id	emp_name	emp_dob	age	address	doj	salary
1	amit	1990-01-02	30	India	2019-01-11	1000000
1	amit	1990-02-02	31	India	2019-01-12	100000
2	pawam	2003-02-02	31	UK	2019-03-12	200000
3	pawam	1898-02-02	33	US	2012-07-12	20000
4	pawa	1858-02-02	34	US	2015-07-12	40000

5 rows in set (0.000 sec)

MariaDB [employee]> alter table basic\_info modify emp\_id int(3) primary key;  
ERROR 1062 (23000): Duplicate entry '1' for key 'PRIMARY'

MariaDB [employee]> delete from basic\_info where age=30;  
Query OK, 1 row affected (0.101 sec)

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

emp_id	emp_name	emp_dob	age	address	doj	salary
1	amit	1990-02-02	31	India	2019-01-12	100000
2	pawam	2003-02-02	31	UK	2019-03-12	200000
3	pawam	1898-02-02	33	US	2012-07-12	20000
4	pawa	1858-02-02	34	US	2015-07-12	40000

4 rows in set (0.001 sec)

MariaDB [employee]> alter table basic\_info modify emp\_id int(3) primary key;  
Query OK, 0 rows affected (1.221 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
MariaDB [employee]> desc basic_info'
'> ';
Empty set (0.055 sec)
```

```
MariaDB [employee]> desc basic_info;
```

Field	Type	Null	Key	Default	Extra
emp_id	int(3)	NO	PRI	NULL	
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 (0.074 sec)

```
MariaDB [employee]> insert into basic_info values(4,'pawa','1858-02-02',34,'US','2015-07-12',
ERROR 1062 (23000): Duplicate entry '4' for key 'PRIMARY'
MariaDB [employee]> insert into basic_info values(5,'pawan','1989-02-02',33,'Shri Lanka','201
Query OK, 1 row affected (0.057 sec)
```

```
MariaDB [employee]> create table emp_admin(id int(2), name char(29), Foreign key(id) referenc
Query OK, 0 rows affected (0.397 sec)
```

```
MariaDB [employee]> desc emp_admin;
```

Field	Type	Null	Key	Default	Extra
id	int(2)	YES	MUL	NULL	
name	char(29)	YES		NULL	

2 rows in set (0.021 sec)

```
MariaDB [employee]> select* from basic_info;
```

emp_id	emp_name	emp_dob	age	address	doj	salary
1	amit	1990-02-02	31	India	2019-01-12	100000
2	pawam	2003-02-02	31	UK	2019-03-12	200000
3	pawam	1898-02-02	33	US	2012-07-12	20000
4	pawa	1858-02-02	34	US	2015-07-12	40000
5	pawan	1989-02-02	33	Shri Lanka	2015-08-12	10000

5 rows in set (0.000 sec)

```
MariaDB [employee]> insert into emp_admin values(8,'Amit');
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`employ
MariaDB [employee]> insert into emp_admin values(1,'Amit');
```

```
Query OK, 1 row affected (0.064 sec)
```

```
MariaDB [employee]> insert into emp_admin values(3,'Amit');
Query OK, 1 row affected (0.071 sec)
```

```
MariaDB [employee]> insert into emp_admin values(4,'Amit');
Query OK, 1 row affected (0.042 sec)
```

```
MariaDB [employee]> insert into emp_admin values(5,'Amit');
Query OK, 1 row affected (0.064 sec)
```

```
MariaDB [employee]> insert into emp_admin values(2,'Amit');
Query OK, 1 row affected (0.044 sec)
```

```
MariaDB [employee]> insert into emp_admin values(6,'Amit');
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`employ
MariaDB [employee]> select * from basic_info;
```

emp_id	emp_name	emp_dob	age	address	doj	salary
1	amit	1990-02-02	31	India	2019-01-12	100000
2	pawam	2003-02-02	31	UK	2019-03-12	200000
3	pawam	1898-02-02	33	US	2012-07-12	20000
4	pawa	1858-02-02	34	US	2015-07-12	40000
5	pawan	1989-02-02	33	Shri Lanka	2015-08-12	10000

5 rows in set (0.001 sec)

```
MariaDB [employee]> select * from basic_info where age=31;
```

emp_id	emp_name	emp_dob	age	address	doj	salary
1	amit	1990-02-02	31	India	2019-01-12	100000
2	pawam	2003-02-02	31	UK	2019-03-12	200000

2 rows in set (0.001 sec)

```
MariaDB [employee]> select * from basic_info where age<=31;
```

emp_id	emp_name	emp_dob	age	address	doj	salary
1	amit	1990-02-02	31	India	2019-01-12	100000
2	pawam	2003-02-02	31	UK	2019-03-12	200000

2 rows in set (0.001 sec)

```
MariaDB [employee]> select * from basic_info where age<31;
Empty set (0.050 sec)
```

```
MariaDB [employee]> select * from basic_info where age!=31;
```

emp_id	emp_name	emp_dob	age	address	doj	salary
3	Amit					
4	Amit					
5	Amit					
6	Amit					

emp_id	emp_name	emp_dob	age	address	doj	salary
3	pawam	1898-02-02	33	US	2012-07-12	20000
4	pawa	1858-02-02	34	US	2015-07-12	40000
5	pawan	1989-02-02	33	Shri Lanka	2015-08-12	10000

3 rows in set (0.000 sec)

MariaDB [employee]> select \* from basic\_info where emp\_dob!='1989-02-02';

emp_id	emp_name	emp_dob	age	address	doj	salary
1	amit	1990-02-02	31	India	2019-01-12	100000
2	pawam	2003-02-02	31	UK	2019-03-12	200000
3	pawam	1898-02-02	33	US	2012-07-12	20000
4	pawa	1858-02-02	34	US	2015-07-12	40000

4 rows in set (0.032 sec)

MariaDB [employee]> select \* from basic\_info where AGE BETWEEN 32 AND 35;

emp_id	emp_name	emp_dob	age	address	doj	salary
3	pawam	1898-02-02	33	US	2012-07-12	20000
4	pawa	1858-02-02	34	US	2015-07-12	40000
5	pawan	1989-02-02	33	Shri Lanka	2015-08-12	10000

3 rows in set (0.001 sec)

MariaDB [employee]> select \* from basic\_info where AGE BETWEEN 32 AND 40;

emp_id	emp_name	emp_dob	age	address	doj	salary
3	pawam	1898-02-02	33	US	2012-07-12	20000
4	pawa	1858-02-02	34	US	2015-07-12	40000
5	pawan	1989-02-02	33	Shri Lanka	2015-08-12	10000

3 rows in set (0.001 sec)

MariaDB [employee]> select \* from basic\_info where AGE BETWEEN 31 AND 40;

emp_id	emp_name	emp_dob	age	address	doj	salary
1	amit	1990-02-02	31	India	2019-01-12	100000
2	pawam	2003-02-02	31	UK	2019-03-12	200000
3	pawam	1898-02-02	33	US	2012-07-12	20000
4	pawa	1858-02-02	34	US	2015-07-12	40000
5	pawan	1989-02-02	33	Shri Lanka	2015-08-12	10000

5 rows in set (0.000 sec)

MariaDB [employee]> select \* from basic\_info where AGE in(31,20,33);



emp_id	emp_name	emp_dob	age	address	doj	salary
1	amit	1990-02-02	31	India	2019-01-12	100000
2	pawam	2003-02-02	31	UK	2019-03-12	200000
3	pawam	1898-02-02	33	US	2012-07-12	20000
5	pawan	1989-02-02	33	Shri Lanka	2015-08-12	10000

4 rows in set (0.001 sec)

MariaDB [employee]> select \* from basic\_info where AGE in(33);

emp_id	emp_name	emp_dob	age	address	doj	salary
3	pawam	1898-02-02	33	US	2012-07-12	20000
5	pawan	1989-02-02	33	Shri Lanka	2015-08-12	10000

2 rows in set (0.000 sec)

MariaDB [employee]> select \* from basic\_info where address like 'India';

emp_id	emp_name	emp_dob	age	address	doj	salary
1	amit	1990-02-02	31	India	2019-01-12	100000

1 row in set (0.001 sec)

MariaDB [employee]> select \* from basic\_info where address like 'U';

Empty set (0.000 sec)

MariaDB [employee]> select \* from basic\_info where address like 'UK';

emp_id	emp_name	emp_dob	age	address	doj	salary
2	pawam	2003-02-02	31	UK	2019-03-12	200000

1 row in set (0.001 sec)

MariaDB [employee]> select \* from basic\_info where emp\_name like 'p%';

emp_id	emp_name	emp_dob	age	address	doj	salary
2	pawam	2003-02-02	31	UK	2019-03-12	200000
3	pawam	1898-02-02	33	US	2012-07-12	20000
4	pawa	1858-02-02	34	US	2015-07-12	40000
5	pawan	1989-02-02	33	Shri Lanka	2015-08-12	10000

4 rows in set (0.000 sec)

MariaDB [employee]>

```
MariaDB [employee]> select * from basic_info where address like 'U';
Empty set (0.000 sec)
```

```
MariaDB [employee]> select * from basic_info where address like 'UK';
+-----+-----+-----+-----+-----+-----+-----+
| emp_id | emp_name | emp_dob   | age | address | doj       | salary |
+-----+-----+-----+-----+-----+-----+-----+
|      2 | pawam    | 2003-02-02 | 31  | UK      | 2019-03-12 | 200000 |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.001 sec)
```

```
MariaDB [employee]> select * from basic_info where emp_name like 'p%';
+-----+-----+-----+-----+-----+-----+-----+
| emp_id | emp_name | emp_dob   | age | address | doj       | salary |
+-----+-----+-----+-----+-----+-----+-----+
|      2 | pawam    | 2003-02-02 | 31  | UK      | 2019-03-12 | 200000 |
|      3 | pawam    | 1898-02-02 | 33  | US      | 2012-07-12 | 20000  |
|      4 | pawa     | 1858-02-02 | 34  | US      | 2015-07-12 | 40000  |
|      5 | pawan    | 1989-02-02 | 33  | Shri Lanka | 2015-08-12 | 10000  |
+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.000 sec)
```

```
MariaDB [employee]> select * from basic_info where emp_name like '%p';
Empty set (0.001 sec)
```

```
MariaDB [employee]> select * from basic_info where emp_name like '%w';
Empty set (0.000 sec)
```

```
MariaDB [employee]> select * from basic_info where emp_name like '%a';
+-----+-----+-----+-----+-----+-----+-----+
| emp_id | emp_name | emp_dob   | age | address | doj       | salary |
+-----+-----+-----+-----+-----+-----+-----+
|      4 | pawa     | 1858-02-02 | 34  | US      | 2015-07-12 | 40000  |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.001 sec)
```

```
MariaDB [employee]> select * from basic_info where emp_name like '%n';
+-----+-----+-----+-----+-----+-----+-----+
| emp_id | emp_name | emp_dob   | age | address | doj       | salary |
+-----+-----+-----+-----+-----+-----+-----+
|      5 | pawan    | 1989-02-02 | 33  | Shri Lanka | 2015-08-12 | 10000  |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.000 sec)
```

```
MariaDB [employee]> select * from basic_info where emp_name like '%n%';
+-----+-----+-----+-----+-----+-----+-----+
| emp_id | emp_name | emp_dob   | age | address | doj       | salary |
+-----+-----+-----+-----+-----+-----+-----+
|      5 | pawan    | 1989-02-02 | 33  | Shri Lanka | 2015-08-12 | 10000  |
+-----+-----+-----+-----+-----+-----+-----+
```

```
+-----+-----+-----+-----+-----+-----+
1 row in set (0.001 sec)
```

```
MariaDB [employee]> select * from basic_info where emp_name like '%w%';
```

```
+-----+-----+-----+-----+-----+-----+
| emp_id | emp_name | emp_dob   | age | address   | doj       | salary |
+-----+-----+-----+-----+-----+-----+
|      2 | pawam    | 2003-02-02 | 31  | UK        | 2019-03-12 | 200000 |
|      3 | pawam    | 1898-02-02 | 33  | US        | 2012-07-12 | 20000  |
|      4 | pawa     | 1858-02-02 | 34  | US        | 2015-07-12 | 40000  |
|      5 | pawan    | 1989-02-02 | 33  | Shri Lanka | 2015-08-12 | 10000  |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.001 sec)
```

```
MariaDB [employee]> show tables;
```

```
+-----+
| Tables_in_employee |
+-----+
| basic_info          |
| emp_admin            |
| mem                  |
| members              |
| movies               |
+-----+
5 rows in set (0.001 sec)
```

```
MariaDB [employee]> select * from basic_info;
```

```
+-----+-----+-----+-----+-----+-----+
| emp_id | emp_name | emp_dob   | age | address   | doj       | salary |
+-----+-----+-----+-----+-----+-----+
|      1 | amit     | 1990-02-02 | 31  | India     | 2019-01-12 | 100000 |
|      2 | pawam    | 2003-02-02 | 31  | UK        | 2019-03-12 | 200000 |
|      3 | pawam    | 1898-02-02 | 33  | US        | 2012-07-12 | 20000  |
|      4 | pawa     | 1858-02-02 | 34  | US        | 2015-07-12 | 40000  |
|      5 | pawan    | 1989-02-02 | 33  | Shri Lanka | 2015-08-12 | 10000  |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.001 sec)
```

```
MariaDB [employee]> select * from emp_admin;
```

```
+-----+-----+
| id    | name |
+-----+-----+
|      1 | Amit |
|      3 | Amit |
|      4 | Amit |
|      5 | Amit |
|      2 | Amit |
+-----+-----+
5 rows in set (0.000 sec)
```

```
MariaDB [employee]> insert into basic_info values(6,'Amit','1990-01-01',40,'KK','2021-01-01',
Query OK, 1 row affected (0.051 sec)
```

query OK, 1 row affected (0.001 sec)

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

emp_id	emp_name	emp_dob	age	address	doj	salary
1	amit	1990-02-02	31	India	2019-01-12	100000
2	pawam	2003-02-02	31	UK	2019-03-12	200000
3	pawam	1898-02-02	33	US	2012-07-12	20000
4	pawa	1858-02-02	34	US	2015-07-12	40000
5	pawan	1989-02-02	33	Shri Lanka	2015-08-12	10000
6	Amit	1990-01-01	40	KK	2021-01-01	100000

6 rows in set (0.000 sec)

MariaDB [employee]> select \* from basic\_info cross join emp\_admin;

emp_id	emp_name	emp_dob	age	address	doj	salary	id	name
1	amit	1990-02-02	31	India	2019-01-12	100000	1	Amit
1	amit	1990-02-02	31	India	2019-01-12	100000	3	Amit
1	amit	1990-02-02	31	India	2019-01-12	100000	4	Amit
1	amit	1990-02-02	31	India	2019-01-12	100000	5	Amit
1	amit	1990-02-02	31	India	2019-01-12	100000	2	Amit
2	pawam	2003-02-02	31	UK	2019-03-12	200000	1	Amit
2	pawam	2003-02-02	31	UK	2019-03-12	200000	3	Amit
2	pawam	2003-02-02	31	UK	2019-03-12	200000	4	Amit
2	pawam	2003-02-02	31	UK	2019-03-12	200000	5	Amit
2	pawam	2003-02-02	31	UK	2019-03-12	200000	2	Amit
3	pawam	1898-02-02	33	US	2012-07-12	20000	1	Amit
3	pawam	1898-02-02	33	US	2012-07-12	20000	3	Amit
3	pawam	1898-02-02	33	US	2012-07-12	20000	4	Amit
3	pawam	1898-02-02	33	US	2012-07-12	20000	5	Amit
3	pawam	1898-02-02	33	US	2012-07-12	20000	2	Amit
4	pawa	1858-02-02	34	US	2015-07-12	40000	1	Amit
4	pawa	1858-02-02	34	US	2015-07-12	40000	3	Amit
4	pawa	1858-02-02	34	US	2015-07-12	40000	4	Amit
4	pawa	1858-02-02	34	US	2015-07-12	40000	5	Amit
4	pawa	1858-02-02	34	US	2015-07-12	40000	2	Amit
5	pawan	1989-02-02	33	Shri Lanka	2015-08-12	10000	1	Amit
5	pawan	1989-02-02	33	Shri Lanka	2015-08-12	10000	3	Amit
5	pawan	1989-02-02	33	Shri Lanka	2015-08-12	10000	4	Amit
5	pawan	1989-02-02	33	Shri Lanka	2015-08-12	10000	5	Amit
5	pawan	1989-02-02	33	Shri Lanka	2015-08-12	10000	2	Amit
6	Amit	1990-01-01	40	KK	2021-01-01	100000	1	Amit
6	Amit	1990-01-01	40	KK	2021-01-01	100000	3	Amit
6	Amit	1990-01-01	40	KK	2021-01-01	100000	4	Amit
6	Amit	1990-01-01	40	KK	2021-01-01	100000	5	Amit
6	Amit	1990-01-01	40	KK	2021-01-01	100000	2	Amit

30 rows in set (0.001 sec)

```
MariaDB [employee]> select basic_info.salary, basic_info.emp_name,emp_admin.id from basic_inf
ERROR 1054 (42S22): Unknown column 'basic_info.id' in 'where clause'
```

```
MariaDB [employee]> select basic_info.salary, basic_info.emp_name,emp_admin.id from basic_inf
+-----+-----+-----+
| salary | emp_name | id   |
+-----+-----+-----+
| 100000 | amit     | 1    |
| 200000 | pawam    | 2    |
| 20000  | pawam    | 3    |
| 40000  | pawa     | 4    |
| 10000  | pawan    | 5    |
+-----+-----+-----+
5 rows in set (0.021 sec)
```

```
MariaDB [employee]> select basic_info.salary, basic_info.emp_name,emp_admin.id from basic_inf
ERROR 1146 (42S02): Table 'employee.emp_info' doesn't exist
```

```
MariaDB [employee]> select basic_info.salary, basic_info.emp_name,emp_admin.id from basic_inf
ERROR 1054 (42S22): Unknown column 'basic_info.id' in 'on clause'
```

```
MariaDB [employee]> select basic_info.salary, basic_info.emp_name,emp_admin.id from basic_inf
+-----+-----+-----+
| salary | emp_name | id   |
+-----+-----+-----+
| 100000 | amit     | 1    |
| 200000 | pawam    | 2    |
| 20000  | pawam    | 3    |
| 40000  | pawa     | 4    |
| 10000  | pawan    | 5    |
| 100000 | Amit     | NULL |
+-----+-----+-----+
6 rows in set (0.001 sec)
```

```
MariaDB [employee]> select * from basic_info;
```

```
+-----+-----+-----+-----+-----+-----+-----+
| emp_id | emp_name | emp_dob   | age | address   | doj       | salary |
+-----+-----+-----+-----+-----+-----+-----+
| 1      | amit     | 1990-02-02 | 31  | India     | 2019-01-12 | 100000 |
| 2      | pawam    | 2003-02-02 | 31  | UK        | 2019-03-12 | 200000 |
| 3      | pawam    | 1898-02-02 | 33  | US        | 2012-07-12 | 20000  |
| 4      | pawa     | 1858-02-02 | 34  | US        | 2015-07-12 | 40000  |
| 5      | pawan    | 1989-02-02 | 33  | Shri Lanka | 2015-08-12 | 10000  |
| 6      | Amit     | 1990-01-01 | 40  | KK        | 2021-01-01 | 100000 |
+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.001 sec)
```

```
MariaDB [employee]> select * from emp_admin;
```

```
+-----+-----+
| id   | name |
+-----+-----+
| 1    | Amit |
| 3    | Amit |
| 4    | Amit |
| 5    | Amit |
```

```
| 2 | Amit |
```

```
+-----+-----+
```

5 rows in set (0.000 sec)

```
MariaDB [employee]> select basic_info.salary, basic_info.emp_name,emp_admin.id from basic_inf
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds t
MariaDB [employee]> select * from basic_info LEFT JOIN emp_admin on basic_info.emp_id=emp_adm
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_id | emp_name | emp_dob   | age | address   | doj       | salary | id  | name |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | amit   | 1990-02-02 | 31 | India     | 2019-01-12 | 100000 | 1  | Amit |
| 3 | pawam  | 1898-02-02 | 33 | US        | 2012-07-12 | 20000  | 3  | Amit |
| 4 | pawa   | 1858-02-02 | 34 | US        | 2015-07-12 | 40000  | 4  | Amit |
| 5 | pawan  | 1989-02-02 | 33 | Shri Lanka | 2015-08-12 | 10000  | 5  | Amit |
| 2 | pawam  | 2003-02-02 | 31 | UK        | 2019-03-12 | 200000 | 2  | Amit |
| 6 | Amit   | 1990-01-01 | 40 | KK        | 2021-01-01 | 100000 | NULL | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

6 rows in set (0.001 sec)

```
MariaDB [employee]> select * from basic_info RIGHT JOIN emp_admin on basic_info.emp_id=emp_ad
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_id | emp_name | emp_dob   | age | address   | doj       | salary | id  | name |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | amit   | 1990-02-02 | 31 | India     | 2019-01-12 | 100000 | 1  | Amit |
| 3 | pawam  | 1898-02-02 | 33 | US        | 2012-07-12 | 20000  | 3  | Amit |
| 4 | pawa   | 1858-02-02 | 34 | US        | 2015-07-12 | 40000  | 4  | Amit |
| 5 | pawan  | 1989-02-02 | 33 | Shri Lanka | 2015-08-12 | 10000  | 5  | Amit |
| 2 | pawam  | 2003-02-02 | 31 | UK        | 2019-03-12 | 200000 | 2  | Amit |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

5 rows in set (0.001 sec)

```
MariaDB [employee]>
```

```
###View in SQL#####
```

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