DataBase Creation

mysql>Create database javabatch1

mysql>use javabatch1

Table creation

mysql> create table employe3(empId int,empName varchar(20),empSalary float(10,2));

Query OK, 0 rows affected (0.10 sec)

Insert Query

mysql> insert into employe3 values(101,"Triveni",1000);

Query OK, 1 row affected (0.04 sec)

Display the Table

mysql> select \* from employe3;

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

| empId | empName | empSalary |

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

| 101 | Triveni | 1000.00 |

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

1 row in set (0.00 sec)

mysql> select \* from employe1;

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

+

| empId | empName | empSalary | empDesignation | empGender | empPan | empAadhar | empLocation | empDOB | empjoiningdate | empjoiningtimedate

|

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

+

| 104 | Divya | 50000.00 | c developer | NULL | DJKR6991C | 9490220 | Hyderabad | 1995-05-29 | 2021-02-15 | 2021-02-20 10:00:10

|

| 105 | Priya | 60000.00 | SQL developer | NULL | DJKR6991C | 9490220 | Hyderabad | 1995-05-29 | 2021-02-15 | 2021-02-20 10:00:10

|

| 106 | sai | 70000.00 | HR | NULL | DJKR6991C | 9490220 | Hyderabad | 1995-05-29 | 2021-02-15 | 2021-02-20 10:00:10

|

| 107 | sai sree | 70000.00 | HR | F | DJKR6991C | 9490220 | Hyderabad | 1995-05-29 | 2021-02-15 | 2021-02-20 10:00:10

|

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

select \*from employee;

mysql> update employee set empSalary=50000,empDesignation="sse" where empId=102;

Query OK, 1 row affected (0.08 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from employee;

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

| empId | empName | empSalary | empDesignation |

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

| 102 | Divya | 50000.00 | sse |

| 103 | Mouni | 50000.00 | Hr |

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

PrimaryKey

-mysql> create table employe(empId int,empName varchar(40),empSalary float(10,2),empDesignation varchar(50),primary key(empId));

Query OK, 0 rows affected (0.16 sec)

mysql> insert into employe values(103,"Mouni",40000,"c developer");

Query OK, 1 row affected (0.08

mysql> create table employe1(empId int not null,empName varchar(40) not null,empSalary float(10,2) not null,empDesignation varchar(50) not null,primary key(empId));

Query OK, 0 rows affected (0.14 sec)

mysql> insert into employe1 values(104,"Divya",null,"c developer");

ERROR 1048 (23000): Column 'empSalary' cannot be null

| 104 | Divya | NULL | c developer |

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

3 rows in set (0.00

Alter Table

mysql> alter table employe1 add(empPan varchar(30),empAadhar int(30),empLocation varchar(60),empDOB date,empjoiningdate date);

Query OK, 4 rows affected (0.33 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> select \*from employe1;

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

| empId | empName | empSalary | empDesignation | empGender | empPan | empAadhar | empLocation | empDOB | empjoiningdate |

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

| 104 | Divya | 50000.00 | c developer | NULL | NULL | NULL | NULL | NULL | NULL |

| 105 | Priya | 60000.00 | SQL developer | NULL | NULL | NULL | NULL | NULL | NULL |

| 106 | sai | 70000.00 | HR | NULL | NULL | NULL | NULL | NULL | NULL |

| 107 | sai sree | 70000.00 | HR | F |

Update Query

mysql> update employe1 set empPan="DJKR6991C",empAadhar=9490220,empLocation="Hyderabad",empDOB="1995-05-29",empjoiningdate="2021-2-15";

Query OK, 4 rows affected (0.09 sec)

Rows matched: 4 Changed: 4 Warnings: 0

mysql> select \*from employe1;

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

| empId | empName | empSalary | empDesignation | empGender | empPan | empAadhar | empLocation | empDOB | empjoiningdate |

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

| 104 | Divya | 50000.00 | c developer | NULL | DJKR6991C | 9490220 | Hyderabad | 1995-05-29 | 2021-02-15 |

| 105 | Priya | 60000.00 | SQL developer | NULL | DJKR6991C | 9490220 | Hyderabad | 1995-05-29 | 2021-02-15 |

| 106 | sai | 70000.00 | HR | NULL | DJKR6991C | 9490220 | Hyderabad | 1995-05-29 | 2021-02-15 |

Alter Table TimeStamp Data Type

mysql> alter table employe1 add column empjoiningtimedate timestamp;

Query OK, 4 rows affected (0.28 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> select \*from employe1;

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

| empId | empName | empSalary | empDesignation | empGender | empPan | empAadhar | empLocation | empDOB | empjoiningdate | empjoiningtimedate |

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

| 104 | Divya | 50000.00 | c developer | NULL | DJKR6991C | 9490220 | Hyderabad | 1995-05-29 | 2021-02-15 | 0000-00-00 00:00:00 |

| 105 | Priya | 60000.00 | SQL developer | NULL | DJKR6991C | 9490220 | Hyderabad | 1995-05-29 | 2021-02-15 | 0000-00-00 00:00:00 |

| 106 | sai | 70000.00 | HR | NULL | DJKR6991C | 9490220 | Hyderabad | 1995-05-29 | 2021-02-15 | 0000-00-00 00:00:00 |

| 107 | sai sree | 70000.00 | HR | F | DJKR6991C | 9490220 | Hyderabad | 1995-05-29 | 2021-02-15 | 0000-00-00 00:00:00 |

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

4 rows in set (0.00 sec)

| 107 | sai sree | 70000.00 | HR | F | DJKR6991C | 9490220 | Hyderabad | 1995-05-29 | 2021-02-15 |

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

4 rows in set (0.00 sec)ULL mysql> select \* from employe1;

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

+

Display TimeStamp Table

| empId | empName | empSalary | empDesignation | empGender | empPan | empAadhar | empLocation | empDOB | empjoiningdate | empjoiningtimedate

|

+-------+----------+-----------+----------------+-----------+-----------+-----------+-------------+------------+---------------ysql> select \*from employee;

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

empId | empName | empSalary | empDesignation | empLocation |

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

101 | Triveni | 30000.00 | java developer | HYD |

102 | Mouni | 40000.00 | dot net developer | HYD |

103 | Mouni | 40000.00 | c developer | HYD |

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

rows in set (0.00 sec)

ysql> update employee set empLocation="HYD",empId=102;

uery OK, 2 rows affected (0.11 sec)

ows matched: 3 Changed: 2 Warnings: 0

ysql> update employee set empLocation="Chennai",empId=102;

uery OK, 3 rows affected (0.08 sec)

ows matched: 3 Changed: 3 Warnings: 0

ysql> select \*from employee;

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

empId | empName | empSalary | empDesignation | empLocation |

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

102 | Triveni | 30000.00 | java developer | Chennai |

102 | Mouni | 40000.00 | dot net developer | Chennai |

102 | Mouni | 40000.00 | c developer | Chennai |

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

rows in set (0.00 sec)

ysql> insert into employee values(101,"Triveni",49000,"Java Developer","Vizag";

RROR 1064 (42000): You have an error in your SQL syntax; check the manual that corr

ar '' at line 1

ysql> insert into employee values(101,"Triveni",49000,"Java Developer","Vizag");

uery OK, 1 row affected (0.09 sec)

ysql> select \*from employee;

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

empId | empName | empSalary | empDesignation | empLocation |

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

102 | Triveni | 30000.00 | java developer | Chennai |

102 | Mouni | 40000.00 | dot net developer | Chennai |

102 | Mouni | 40000.00 | c developer | Chennai |

101 | Triveni | 49000.00 | Java Developer | Vizag |

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

rows in set (0.00 sec)

ysql> insert into employee values(102,"Durga",69000,".Net Developer","Mumbai");

uery OK, 1 row affected (0.06 sec)

ysql> select \*from employee;

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

empId | empName | empSalary | empDesignation | empLocation |

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

102 | Triveni | 30000.00 | java developer | Chennai |

102 | Mouni | 40000.00 | dot net developer | Chennai |

102 | Mouni | 40000.00 | c developer | Chennai |

101 | Triveni | 49000.00 | Java Developer | Vizag |

102 | Durga | 69000.00 | .Net Developer | Mumbai |

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

rows in set (0.00 sec)

ysql> delete from employee where empId=102;

uery OK, 4 rows affected (0.08 sec)

ysql> select \*from employee;

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

empId | empName | empSalary | empDesignation | empLocation |

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

101 | Triveni | 49000.00 | Java Developer | Vizag |

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

row in set (0.00 sec)

ysql> insert into employee values(102,"Durga",69000,".Net Developer","Mumbai");

uery OK, 1 row affected (0.08 sec)

ysql> insert into employee values(103,"Sai Anil",79000,"SQL Developer","Delhi");

uery OK, 1 row affected (0.30 sec)

ysql> insert into employee values(104,"Sai Akil",49000,"Web Developer","Chennai");

uery OK, 1 row affected (0.06 sec)

ysql> insert into employee values(105,"Mouni",59000,"HR","Bangalore");

uery OK, 1 row affected (0.13 sec)

ysql> select \*from employee;

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

empId | empName | empSalary | empDesignation | empLocation |

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

101 | Triveni | 49000.00 | Java Developer | Vizag |

102 | Durga | 69000.00 | .Net Developer | Mumbai |

103 | Sai Anil | 79000.00 | SQL Developer | Delhi |

104 | Sai Akil | 49000.00 | Web Developer | Chennai |

105 | Mouni | 59000.00 | HR | Bangalore |

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

rows in set (0.00 sec)

Distinct

ysql> select distinct empLocation from employee;

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

empLocation |

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

Vizag |

Mumbai |

Delhi |

Chennai |

Bangalore |

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

rows in set (0.00 sec)

Count

ysql> select count(\*)from employee;

----------+

count(\*) |

----------+

5 |

----------+

row in set (0.00 sec)

Where(=,<,>,<=,>=,<> or !=)

ysql> select \* from employee where empId=101;

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

empId | empName | empSalary | empDesignation | empLocation |

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

101 | Triveni | 49000.00 | Java Developer | Vizag |

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

row in set (0.00 sec)

ysql> select \* from employee where empId>101;

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

empId | empName | empSalary | empDesignation | empLocation |

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

102 | Durga | 69000.00 | .Net Developer | Mumbai |

103 | Sai Anil | 79000.00 | SQL Developer | Delhi |

104 | Sai Akil | 49000.00 | Web Developer | Chennai |

105 | Mouni | 59000.00 | HR | Bangalore |

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

rows in set (0.00 sec)

ysql> select \* from employee where empId>=101;

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

empId | empName | empSalary | empDesignation | empLocation |

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

101 | Triveni | 49000.00 | Java Developer | Vizag |

102 | Durga | 69000.00 | .Net Developer | Mumbai |

103 | Sai Anil | 79000.00 | SQL Developer | Delhi |

104 | Sai Akil | 49000.00 | Web Developer | Chennai |

105 | Mouni | 59000.00 | HR | Bangalore |

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

rows in set (0.00 sec)

ysql> select \* from employee where empId<101;

mpty set (0.00 sec)

ysql> select \* from employee where empId<=101;

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

empId | empName | empSalary | empDesignation | empLocation |

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

101 | Triveni | 49000.00 | Java Developer | Vizag |

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

row in set (0.00 sec)

ysql> select \* from employee where empId<>101;

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

empId | empName | empSalary | empDesignation | empLocation |

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

102 | Durga | 69000.00 | .Net Developer | Mumbai |

103 | Sai Anil | 79000.00 | SQL Developer | Delhi |

104 | Sai Akil | 49000.00 | Web Developer | Chennai |

105 | Mouni | 59000.00 | HR | Bangalore |

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

rows in set (0.00 sec)

ysql> select \* from employee where empId!=101;

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

empId | empName | empSalary | empDesignation | empLocation |

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

102 | Durga | 69000.00 | .Net Developer | Mumbai |

103 | Sai Anil | 79000.00 | SQL Developer | Delhi |

104 | Sai Akil | 49000.00 | Web Developer | Chennai |

105 | Mouni | 59000.00 | HR | Bangalore |

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

rows in set (0.00 sec)

Like(Starts with (“s%”),Ends with (“%s”))

ysql> select empName from employee where empName like"s%";

----------+

empName |

----------+

Sai Anil |

Sai Akil |

----------+

rows in set (0.00 sec)

ysql> select empName from employee where empName like"%i";

---------+

empName |

---------+

Triveni |

Mouni |

---------+

rows in set (0.00 sec)

In

ysql> select \*from employee where empId in(101,102,103,104);

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

empId | empName | empSalary | empDesignation | empLocation |

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

101 | Triveni | 49000.00 | Java Developer | Vizag |

102 | Durga | 69000.00 | .Net Developer | Mumbai |

103 | Sai Anil | 79000.00 | SQL Developer | Delhi |

104 | Sai Akil | 49000.00 | Web Developer | Chennai |

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

rows in set (0.00 sec)

ysql> select \*from employee;

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

empId | empName | empSalary | empDesignation | empLocation |

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

101 | Triveni | 49000.00 | Java Developer | Vizag |

102 | Durga | 69000.00 | .Net Developer | Mumbai |

103 | Sai Anil | 79000.00 | SQL Developer | Delhi |

104 | Sai Akil | 49000.00 | Web Developer | Chennai |

105 | Mouni | 59000.00 | HR | Bangalore |

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

rows in set (0.00 sec)

ysql> alter table employee add(empAddress varchar(40));

uery OK, 5 rows affected (0.28 sec)

ecords: 5 Duplicates: 0 Warnings: 0

ysql> select \*from employee;

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

empId | empName | empSalary | empDesignation | empLocation | empAddress |

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

101 | Triveni | 49000.00 | Java Developer | Vizag | NULL |

102 | Durga | 69000.00 | .Net Developer | Mumbai | NULL |

103 | Sai Anil | 79000.00 | SQL Developer | Delhi | NULL |

104 | Sai Akil | 49000.00 | Web Developer | Chennai | NULL |

105 | Mouni | 59000.00 | HR | Bangalore | NULL |

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

rows in set (0.02 sec)

ysql> insert into employee values(105,"Mouni",59000,"HR","Bangalore","Turakapalem")

uery OK, 1 row affected (0.06 sec)-+---------------------

+

| 104 | Divya | 50000.00 | c developer | NULL | DJKR6991C | 9490220 | Hyderabad | 1995-05-29 | 2021-02-15 | 2021-02-20 10:00:10

|

| 105 | Priya | 60000.00 | SQL developer | NULL | DJKR6991C | 9490220 | Hyderabad | 1995-05-29 | 2021-02-15 | 2021-02-20 10:00:10

|

| 106 | sai | 70000.00 | HR | NULL | DJKR6991C | 9490220 | Hyderabad | 1995-05-29 | 2021-02-15 | 2021-02-20 10:00:10

|

| 107 | sai sree | 70000.00 | HR | F | DJKR6991C | 9490220 | Hyderabad | 1995-05-29 | 2021-02-15 | 2021-02-20 10:00:10

|

+-------+----------+-----------+----------------+-----------+-----------+-----------+-------------+------------+----------------+--------------------- | NULL | NULL | NULL | NULL |

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

4 rows in set (0.00 sec) sec)

Between

mysql> select \*from employee where empId between 111 and 112;

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

| empId | empName | empSalary | empDesignation | empLocation | empAddress |

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

| 111 | Triveni | 1000.00 | Java d | vizag | Turakapalem |

| 112 | Durga | 2000.00 | C d | Mumbai | Turakapalem |

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

2 rows in set (0.00 sec)

SQL AND Operation

mysql> select \*from employee where empLocation="vizag" and empAddress="Turakapalem";

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

| empId | empName | empSalary | empDesignation | empLocation | empAddress |

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

| 111 | Triveni | 1000.00 | Java d | vizag | Turakapalem |

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

1 row in set (0.00 sec)

SQL OR Operation

mysql> select \*from employee where empLocation="vizag" or empAddress="Turakapalem";

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

| empId | empName | empSalary | empDesignation | empLocation | empAddress |

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

| 111 | Triveni | 1000.00 | Java d | vizag | Turakapalem |

| 112 | Durga | 2000.00 | C d | Mumbai | Turakapalem |

| 113 | Sai | 3000.00 | SQL d | Delhi | Turakapalem |

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

3 rows in set (0.00 sec)

SQL AND & OR Operation

mysql> select \*from employee where empLocation="vizag"and(empDesignation="java d" or empAddress="Turakapalem");

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

| empId | empName | empSalary | empDesignation | empLocation | empAddress |

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

| 111 | Triveni | 1000.00 | Java d | vizag | Turakapalem |

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

1 row in set (0.00 sec)

mysql> select \*from employee where empLocation="delhi"and(empDesignation="java d" or empAddress="Turakapalem");

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

| empId | empName | empSalary | empDesignation | empLocation | empAddress |

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

| 113 | Sai | 3000.00 | SQL d | Delhi mysql> select \* from employee where not empAddress="Turakapalem";

Empty set (0.00 sec)

SQL NOT Operation

mysql> select \* from employee where not empAddress="vizag";

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

| empId | empName | empSalary | empDesignation | empLocation | empAddress |

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

| 111 | Triveni | 1000.00 | Java d | vizag | Turakapalem |

| 112 | Durga | 2000.00 | C d | Mumbai | Turakapalem |

| 113 | Sai | 3000.00 | SQL d | Delhi | Turakapalem |

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

3 rows in set (0.00 sec) | Turakapalem |

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

1 row in set (0.00 sec)

mysql> select \*from employee;

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

| empId | empName | empSalary | empDesignation | empLocation | empAddress |

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

| 111 | Triveni | 1000.00 | Java d | vizag | Turakapalem |

| 112 | Durga | 2000.00 | C d | Mumbai | Turakapalem |

| 113 | Sai | 3000.00 | SQL d | Delhi | Turakapalem |

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

3 rows in set (0.02 sec)

OrderBy

mysql> select \*from employee order by empName;

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

| empId | empName | empSalary | empDesignation | empLocation | empAddress |

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

| 112 | Durga | 2000.00 | C d | Mumbai | Turakapalem |

| 113 | Sai | 3000.00 | SQL d | Delhi | Turakapalem |

| 111 | Triveni | 1000.00 | Java d | vizag | Turakapalem |

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

3 rows in set (0.00 sec)

mysql> select \*from employee order by empName asc;

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

| empId | empName | empSalary | empDesignation | empLocation | empAddress |

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

| 112 | Durga | 2000.00 | C d | Mumbai | Turakapalem |

| 113 | Sai | 3000.00 | SQL d | Delhi | Turakapalem |

| 111 | Triveni | 1000.00 | Java d | vizag | Turakapalem |

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

3 rows in set (0.00 sec)

mysql> select \*from employee order by empName desc;

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

| empId | empName | empSalary | empDesignation | empLocation | empAddress |

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

| 111 | Triveni | 1000.00 | Java d | vizag | Turakapalem |

| 113 | Sai | 3000.00 | SQL d | Delhi | Turakapalem |

| 112 | Durga | 2000.00 | C d | Mumbai | Turakapalem |

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

3 rows in set (0.00 sec)

mysql> select \*from employee order by empName ,empLocation;

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

| empId | empName | empSalary | empDesignation | empLocation | empAddress |

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

| 112 | Durga | 2000.00 | C d | Mumbai | Turakapalem |

| 113 | Sai | 3000.00 | SQL d | Delhi | Turakapalem |

| 111 | Triveni | 1000.00 | Java d | vizag | Turakapalem |

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

3 rows in set (0.00 sec)

GroupBy

mysql> select \*from employee group by empName;

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

| empId | empName | empSalary | empDesignation | empLocation | empAddress |

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

| 112 | Durga | 2000.00 | C d | Mumbai | Turakapalem |

| 113 | Sai | 3000.00 | SQL d | Delhi | Turakapalem |

| 111 | Triveni | 1000.00 | Java d | vizag | Turakapalem |

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

3 rows in set (0.00 sec)

mysql> select \*from employee order by empName ,empAddress;

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

| empId | empName | empSalary | empDesignation | empLocation | empAddress |

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

| 112 | Durga | 2000.00 | C d | Mumbai | Turakapalem |

| 113 | Sai | 3000.00 | SQL d | Delhi | Turakapalem |

| 111 | Triveni | 1000.00 | Java d | vizag | Turakapalem |

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

3 rows in set (0.00 sec)

mysql> select count(empId),empAddress from employee group by empAddress;

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

| count(empId) | empAddress |

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

| 3 | Turakapalem |

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

1 row in set (0.00 sec)

mysql> select \*from employee limit 4;

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

| empId | empName | empSalary | empDesignation | empLocation | empAddress |

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

| 111 | Triveni | 1000.00 | Java d | vizag | Turakapalem |

| 112 | Durga | 2000.00 | C d | Mumbai | Turakapalem |

| 113 | Sai | 3000.00 | SQL d | Delhi | Turakapalem |

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

3 rows in set (0.00 sec)

mysql> select \*from employee where empAddress="Turakapalem"limit 2;

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

| empId | empName | empSalary | empDesignation | empLocation | empAddress |

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

| 111 | Triveni | 1000.00 | Java d | vizag | Turakapalem |

| 112 | Durga | 2000.00 | C d | Mumbai | Turakapalem |

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

2 rows in set (0.00 sec)

mysql> select min(empId) from employee;

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

| min(empId) |

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

| 111 |

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

1 row in set (0.00 sec)

Max

mysql> select max(empId) from employee;

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

| max(empId) |

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

| 113 |

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

1 row in set (0.00 sec)

Min

mysql> select min(empName) as employeeName from employee;

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

| employeeName |

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

| Durga |

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

1 row in set (0.00 sec)

mysql> use javabatch1;

Database changed

mysql> select \* from employee;

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

| empId | empName | empSalary | empDesignation | empLocation | empAddress |

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

| 111 | Triveni | 1000.00 | Java d | vizag | Turakapalem |

| 112 | Durga | 2000.00 | C d | Mumbai | Turakapalem |

| 113 | Sai | 3000.00 | SQL d | Delhi | Turakapalem |

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

3 rows in set (0.01 sec)

AVG

mysql> select avg(empSalary) from employee;

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

| avg(empSalary) |

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

| 2000.000000 |

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

1 row in set (0.00 sec)

sum

mysql> select sum(empSalary) from employee;

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

| sum(empSalary) |

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

| 6000.00 |

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

1 row in set (0.00 sec)

Aliasing

mysql> select empName as employeeName,empSalary as employeeSalary from employee;

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

| employeeName | employeeSalary |

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

| Triveni | 1000.00 |

| Durga | 2000.00 |

| Sai | 3000.00 |

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

3 rows in set (0.00 sec)

Drop

mysql> alter table employee drop empAddress;

Query OK, 3 rows affected (0.26 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> select \* from employee;

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

| empId | empName | empSalary | empDesignation | empLocation |

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

| 111 | Triveni | 1000.00 | Java d | vizag |

| 112 | Durga | 2000.00 | C d | Mumbai |

| 113 | Sai | 3000.00 | SQL d | Delhi |

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

3 rows in set (0.00 sec)

mysql> create table address(id int, address1 varchar(20),address2 varchar(20),city varchar(20) unique,pincode varchar(10));

Query OK, 0 rows affected (0.10 sec)

mysql> insert into address values(101,"R.Nagar","JNTU","Hyderabad","500038");

Query OK, 1 row affected (0.08 sec)

mysql> insert into address values(101,"R.Nagar","JNTU","","500038");

Query OK, 1 row affected (0.08 sec)

mysql>

mysql>

mysql>

mysql> insert into address values(101,"R.Nagar","JNTU","Guntur","500038");

Query OK, 1 row affected (0.09 sec)

mysql> insert into address values(101,"R.Nagar","JNTU","Vizag","500038");

Query OK, 1 row affected (0.08 sec)

mysql> select \* from address;

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

| id | address1 | address2 | city | pincode |

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

| 101 | R.Nagar | JNTU | Hyderabad | 500038 |

| 101 | R.Nagar | JNTU | | 500038 |

| 101 | R.Nagar | JNTU | Guntur | 500038 |

| 101 | R.Nagar | JNTU | Vizag | 500038 |

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

4 rows in set (0.00 sec)

Auto Increment

mysql> create table address(id int auto increment, address1 varchar(20),address2 varchar(20),city varchar(20) unique,pincode varchar(10));

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

ear 'auto increment, address1 varchar(20),address2 varchar(20),city varchar(20) uniqu' at line 1

mysql> insert into address values(101,"R.Nagar","JNTU","Vizag","500038");

ERROR 1062 (23000): Duplicate entry 'Vizag' for key 'city'

mysql> create table address1(id int auto\_increment, address varchar(20),city varchar(20),primary key(id));

Query OK, 0 rows affected (0.12 sec)

Insert values

mysql> insert into address1(city) values("Hyd");

Query OK, 1 row affected (0.14 sec)

mysql> insert into address1(city) values("Guntur");

Query OK, 1 row affected (0.04 sec)

mysql> select \* from address1;

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

| id | address | city |

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

| 1 | NULL | Hyd |

| 2 | NULL | Guntur |

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

2 rows in set (0.00 sec)

PrimaryKey

mysql> alter table address and primary key(addId);

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

ear 'and primary key(addId)' at line 1

Foreign Key

mysql> create table employee(empId int,addId int,primarykey(empId),foreign key(addId) references address(addId));

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

ear '(empId),foreign key(addId) references address(addId))' at line 1

mysql> insert into employee values(1001,101);

ERROR 1136 (21S01): Column count doesn't match value count at row 1

mysql> select avg(empSalary) from employee;

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

| avg(empSalary) |

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

| 2000.000000 |

|  |
| --- |
|  |

Joins

Inner Join

mysql> select \* from addres a inner join student s on a.addId=s.addId;

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

| addId | Location | City | stdId | stdFirstName | stdLastName | stdEmail | branch | addId |

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

| 101 | JNTU | HYDERABAD | 1 | Triveni | p | abc@gmail.com | I.T | 101 |

| 102 | Suncity | Mumbai | 2 | Teja | V | teja@gmail.com | E.C.E | 102 |

| 103 | Tambarum | Chennai | 3 | Priya | P | priya@gmail.com | E.E.E | 103 |

| 104 | KpHb | Bangalore | 4 | Sai | M | sai@gmail.com | C.S.E | 104 |

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

4 rows in set (0.00 sec)

Left Join

mysql> select \* from addres a left join student s on a.addId=s.addId;

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

| addId | Location | City | stdId | stdFirstName | stdLastName | stdEmail | branch | addId |

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

| 101 | JNTU | HYDERABAD | 1 | Triveni | p | abc@gmail.com | I.T | 101 |

| 103 | Tambarum | Chennai | 3 | Priya | P | priya@gmail.com | E.E.E | 103 |

| 104 | KpHb | Bangalore | 4 | Sai | M | sai@gmail.com | C.S.E | 104 |

| 102 | Suncity | Mumbai | 2 | Teja | V | teja@gmail.com | E.C.E | 102 |

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

4 rows in set (0.00 sec)

Right Join

mysql> select \* from addres a right join student s on a.addId=s.addId;

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

| addId | Location | City | stdId | stdFirstName | stdLastName | stdEmail | branch | addId |

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

| 101 | JNTU | HYDERABAD | 1 | Triveni | p | abc@gmail.com | I.T | 101 |

| 102 | Suncity | Mumbai | 2 | Teja | V | teja@gmail.com | E.C.E | 102 |

| 103 | Tambarum | Chennai | 3 | Priya | P | priya@gmail.com | E.E.E | 103 |

| 104 | KpHb | Bangalore | 4 | Sai | M | sai@gmail.com | C.S.E | 104 |

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

4 rows in set (0.00 sec)

Self Join

mysql> select a1.Location from addres a1 ,addres a2 where a1.City=a2.City and a1.addId=a2.addId;

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

| Location |

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

| JNTU |

| Tambarum |

| KpHb |

| Suncity |

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

4 rows in set (0.00 sec)

mysql> select a1.addId from addres a1 ,addres a2 where a1.City=a2.City and a1.addId=a2.addId;

+-------+

| addId |

+-------+

| 101 |

| 103 |

| 104 |

| 102 |

|  |
| --- |
|  |

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

Union

mysql> select City from addres union select address1 from address;

| City |

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

| HYDERABAD |

| Chennai |

| Bangalore |

| Mumbai |

| R.Nagar |

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

5 rows in set (0.05 sec)

Union All

mysql> select City from addres union all select address1 from address;

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

| City |

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

| HYDERABAD |

| Chennai |

| Bangalore |

| Mumbai |

| R.Nagar |

| R.Nagar |

| R.Nagar |

| R.Nagar |

SubString

mysql> select substring(name,3,4) from emp;

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

| substring(name,3,4) |

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

| iven |

| rga |

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

2 rows in set (0.00 sec)

LPAD

mysql> select lpad("Triveni",3,"k") from emp;

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

| lpad("Triveni",3,"k") |

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

| Tri |

| Tri |

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

2 rows in set (0.00 sec)

mysql> select lpad("Triveni",5,"k") from emp;

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

| lpad("Triveni",5,"k") |

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

| Trive |

| Trive |

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

2 rows in set (0.00 sec)

mysql> select lpad("Triveni",10,"k")from emp;

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

| lpad("Triveni",10,"k") |

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

| kkkTriveni |

| kkkTriveni |

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

2 rows in set (0.00 sec)

RPad

mysql> select rpad("Triveni",10,"k")from emp;

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

| rpad("Triveni",10,"k") |

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

| Trivenikkk |

| Trivenikkk |

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

2 rows in set (0.00 sec)

Trim

mysql> select Trim(" Triveni ")from emp;

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

| Trim(" Triveni ") |

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

| Triveni |

| Triveni |

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

2 rows in set (0.00 sec)

LTrim

mysql> select lTrim(" Triveni ")from emp;

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

| lTrim(" Triveni ") |

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

| Triveni |

| Triveni |

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

2 rows in set (0.00 sec)