mysql> create database learnsql;

Query OK, 1 row affected (0.13 sec)

mysql> use learnsql;

Database changed

mysql> create database learnsql;

mysql> create table EMP(emp\_id char(9) not null, emp\_name char(10) not null, primary key(emp\_id,emp\_name));

Query OK, 0 rows affected (0.65 sec)

mysql> desc learnsql;

ERROR 1146 (42S02): Table 'learnsql.learnsql' doesn't exist

mysql> desc EMP;

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

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

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

| emp\_id | char(9) | NO | PRI | NULL | |

| emp\_name | char(10) | NO | PRI | NULL | |

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

2 rows in set (0.06 sec)

mysql> create table PRODUCT\_TST(PROD\_ID varchar(10) NOT NULL, VEND\_ID varchar(10) NOT NULL, PRODUCT varchar(10) NOT NULL, COST integer(8) NOT NULL, primary key(PROD\_ID,VEND\_ID));

Query OK, 0 rows affected (0.19 sec)

mysql> desc

-> product\_tst;

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

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

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

| PROD\_ID | varchar(10) | NO | PRI | NULL | |

| VEND\_ID | varchar(10) | NO | PRI | NULL | |

| PRODUCT | varchar(10) | NO | | NULL | |

| COST | int(8) | NO | | NULL | |

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

4 rows in set (0.07 sec)

mysql> desc employee\_tbl;

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

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

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

| EMP\_ID | char(9) | NO | PRI | NULL | |

| EMP\_NAME | varchar(10) | YES | | NULL | |

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

2 rows in set (0.02 sec)

mysql> insert into employee\_tbl values('123','Bharat');

Query OK, 1 row affected (0.06 sec)

mysql> insert into employee\_tbl values('123','Bharat');

ERROR 1062 (23000): Duplicate entry '123' for key 'PRIMARY'

mysql> insert into employee\_tbl values('124','Ram');

Query OK, 1 row affected (0.04 sec)

mysql> insert into employee\_tbl values('125','Jaydip');

Query OK, 1 row affected (0.00 sec)

mysql> insert into employee\_tbl values('126','Pawan');

Query OK, 1 row affected (0.00 sec)

mysql> insert into employee\_tbl values('127','Sandeep');

Query OK, 1 row affected (0.04 sec)

mysql> insert into employee\_tbl values('128','Manish');

Query OK, 1 row affected (0.00 sec)

mysql> insert into employee\_tbl values('129','Rohit');

Query OK, 1 row affected (0.00 sec)

mysql> create table employee\_tbl\_backup as select \* from Employee\_tbl where emp\_id>125;

Query OK, 4 rows affected (0.44 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> select \* FROM EMPLOYEE\_TBL\_backup;

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

| EMP\_ID | EMP\_NAME |

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

| 126 | Pawan |

| 127 | Sandeep |

| 128 | Manish |

| 129 | Rohit |

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

4 rows in set (0.00 sec)

mysql> desc EMPLOYEE\_TBL\_backup;

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

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

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

| EMP\_ID | char(9) | NO | | NULL | |

| EMP\_NAME | varchar(10) | YES | | NULL | |

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

2 rows in set (0.05 sec)

mysql> desc EMPLOYEE\_TBL;

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

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

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

| EMP\_ID | char(9) | NO | PRI | NULL | |

| EMP\_NAME | varchar(10) | YES | | NULL | |

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

2 rows in set (0.07 sec)

mysql> drop table employee\_tbl\_backup;

Query OK, 0 rows affected (0.09 sec)

mysql> desc EMPLOYEE\_TBL\_backup;

ERROR 1146 (42S02): Table 'learnsql.employee\_tbl\_backup' doesn't exist

mysql> alter table employee\_tbl\_backup add constraint products\_pk primary key(emp\_id);

Query OK, 0 rows affected (0.54 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc employee\_tbl\_backup;

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

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

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

| EMP\_ID | char(9) | NO | PRI | NULL | |

| EMP\_NAME | varchar(10) | YES | | NULL | |

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

2 rows in set (0.02 sec)

mysql> alter table employee\_pay add constraint emp\_id\_fk foreign key(emp\_id) references employee\_tbl (emp\_id);

Query OK, 0 rows affected (0.65 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc employee\_pay;

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

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

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

| emp\_id | char(9) | YES | MUL | NULL | |

| emp\_name | varchar(10) | YES | | NULL | |

| emp\_salary | int(4) | YES | | NULL | |

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

3 rows in set (0.02 sec)

mysql> show create table employee\_pay;

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

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

| Table | Create Table

|

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

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

| employee\_pay | CREATE TABLE `employee\_pay` (

`emp\_id` char(9) DEFAULT NULL,

`emp\_name` varchar(10) DEFAULT NULL,

`emp\_salary` int(4) DEFAULT NULL,

KEY `emp\_id\_fk` (`emp\_id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8 |

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

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

1 row in set (0.00 sec)

create table employee\_check(emp\_id char(9) not null primary key,

emp\_zip integer(5) not null,

constraint chk\_emp\_zip check (emp\_zip='46234')

);

mysql> insert into learnsql.employee\_tbl values('130',NULL,NULL);

Query OK, 1 row affected (0.00 sec)

mysql> select \* from employee\_tbl;

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

| EMP\_ID | EMP\_NAME | emp\_salary |

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

| 124 | ashiq | 100000 |

| 125 | vicky | 100000 |

| 126 | bhaiya | 100000 |

| 127 | knight | 100000 |

| 128 | ridder | 100000 |

| 129 | bharat | 100000 |

| 130 | NULL | NULL |

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

7 rows in set (0.00 sec)

mysql> select \* from employee\_tbl group by emp\_name asc;

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

| EMP\_ID | EMP\_NAME | emp\_salary |

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

| 124 | ashiq | 100000 |

| 126 | bhaiya | 100000 |

| 129 | bharat | 100000 |

| 127 | knight | 100000 |

| 130 | lenovo | NULL |

| 128 | ridder | 100000 |

| 125 | vicky | 100000 |

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

7 rows in set (0.03 sec)

mysql> select \* from employee\_tbl group by emp\_name desc;

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

| EMP\_ID | EMP\_NAME | emp\_salary |

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

| 125 | vicky | 100000 |

| 128 | ridder | 100000 |

| 130 | lenovo | NULL |

| 127 | knight | 100000 |

| 129 | bharat | 100000 |

| 126 | bhaiya | 100000 |

| 124 | ashiq | 100000 |

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

7 rows in set (0.00 sec)

mysql> select distinct emp\_salary from employee\_tbl;

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

| emp\_salary |

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

| 100000 |

| NULL |

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

2 rows in set (0.00 sec)

mysql> select distinct emp\_id,emp\_name,emp\_salary from employee\_tbl;

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

| emp\_id | emp\_name | emp\_salary |

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

| 124 | ashiq | 100000 |

| 125 | vicky | 100000 |

| 126 | bhaiya | 100000 |

| 127 | knight | 100000 |

| 128 | ridder | 100000 |

| 129 | bharat | 100000 |

| 130 | lenovo | NULL |

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

7 rows in set (0.00 sec)

mysql> select \* from employee\_tbl where emp\_salary=100000 order by emp\_name;

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

| EMP\_ID | EMP\_NAME | emp\_salary |

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

| 124 | ashiq | 100000 |

| 126 | bhaiya | 100000 |

| 129 | bharat | 100000 |

| 127 | knight | 100000 |

| 128 | ridder | 100000 |

| 125 | vicky | 100000 |

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

6 rows in set (0.00 sec)

mysql> update employee\_tbl set emp\_salary=1000 where emp\_id='124';

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update employee\_tbl set emp\_salary=145000 where emp\_id='125';

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update employee\_tbl set emp\_salary=435000 where emp\_id='126';

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update employee\_tbl set emp\_salary=435000 where emp\_id='127';

Query OK, 1 row affected (0.04 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update employee\_tbl set emp\_salary=2435000 where emp\_id='128';

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update employee\_tbl set emp\_salary=658000 where emp\_id='128';

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update employee\_tbl set emp\_salary=6580450 where emp\_id='129';

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update employee\_tbl set emp\_salary=6580450 where emp\_id='130';

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from employee\_tbl;

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

| EMP\_ID | EMP\_NAME | emp\_salary |

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

| 124 | ashiq | 1000 |

| 125 | vicky | 145000 |

| 126 | bhaiya | 435000 |

| 127 | knight | 435000 |

| 128 | ridder | 658000 |

| 129 | bharat | 6580450 |

| 130 | lenovo | 6580450 |

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

7 rows in set (0.00 sec)

mysql> select count(distinct emp\_salary) from employee\_tbl;

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

| count(distinct emp\_salary) |

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

| 5 |

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

1 row in set (0.00 sec)

mysql> commit;

Query OK, 0 rows affected (0.00 sec)

mysql> select \* from employee\_tbl;

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

| EMP\_ID | EMP\_NAME | emp\_salary |

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

| 12 | NULL | NULL |

| 124 | ashiq | 1000 |

| 125 | vicky | 145000 |

| 126 | bhaiya | 435000 |

| 127 | knight | 435000 |

| 128 | ridder | 658000 |

| 129 | bharat | 6580450 |

| 130 | lenovo | 6580450 |

| 34 | NULL | NULL |

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

9 rows in set (0.00 sec)

mysql> select \* from employee\_tbl where emp\_name>'s';

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

| EMP\_ID | EMP\_NAME | emp\_salary |

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

| 125 | vicky | 145000 |

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

1 row in set (0.00 sec)

mysql> select \* from employee\_tbl;

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

| EMP\_ID | EMP\_NAME | emp\_salary |

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

| 12 | NULL | NULL |

| 124 | ashiq | 1000 |

| 125 | vicky | 145000 |

| 126 | bhaiya | 435000 |

| 127 | knight | 435000 |

| 128 | ridder | 658000 |

| 129 | bharat | 6580450 |

| 130 | lenovo | 6580450 |

| 34 | NULL | NULL |

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

9 rows in set (0.00 sec)

mysql> select count(emp\_name) from employee\_tbl;

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

| count(emp\_name) |

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

| 7 |

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

1 row in set (0.05 sec)

mysql> select count(emp\_id) from employee\_tbl;

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

| count(emp\_id) |

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

| 9 |

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

1 row in set (0.00 sec)

mysql> select sum(emp\_salary) from employee\_tbl;

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

| sum(emp\_salary) |

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

| 14834900 |

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

1 row in set (0.00 sec)

mysql> select sum(distinct emp\_salary) from employee\_tbl;

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

| sum(distinct emp\_salary) |

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

| 7819450 |

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

1 row in set (0.01 sec)

mysql> select sum(distinct (emp\_salary)) from employee\_tbl;

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

| sum(distinct (emp\_salary)) |

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

| 7819450 |

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

1 row in set (0.00 sec)

mysql> select avg(emp\_salary), sum(emp\_salary), sum(distinct emp\_salary) from employee\_tbl;

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

| avg(emp\_salary) | sum(emp\_salary) | sum(distinct emp\_salary) |

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

| 2119271.4286 | 14834900 | 7819450 |

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

1 row in set (0.00 sec)

mysql> select avg(emp\_salary), avg(distinct emp\_salary),sum(emp\_salary), sum(distinct emp\_salary) from employee\_tbl;

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

| avg(emp\_salary) | avg(distinct emp\_salary) | sum(emp\_salary) | sum(distinct emp\_salary) |

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

| 2119271.4286 | 1563890.0000 | 14834900 | 7819450 |

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

1 row in set (0.00 sec)

mysql> desc temp\_tbl;

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

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

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

| emp\_id | int(5) | YES | UNI | NULL | |

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

1 row in set (0.05 sec)

mysql> show create table temp\_tbl;

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

| Table | Create Table

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

| temp\_tbl | CREATE TABLE `temp\_tbl` (

`emp\_id` int(5) DEFAULT NULL,

UNIQUE KEY `temp\_emp\_id\_index` (`emp\_id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8 |

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

1 row in set (0.00 sec)

mysql>

mysql>

mysql>

mysql> insert into temp\_tbl values(null);

Query OK, 1 row affected (0.00 sec)

mysql> select \* from temp\_tbl;

+--------+

| emp\_id |

+--------+

| NULL |

+--------+

1 row in set (0.00 sec)

mysql> show index from temp\_tbl\G;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* 1. row \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Table: temp\_tbl

Non\_unique: 0

Key\_name: temp\_emp\_id\_index

Seq\_in\_index: 1

Column\_name: emp\_id

Collation: A

Cardinality: 1

Sub\_part: NULL

Packed: NULL

Null: YES

Index\_type: BTREE

Comment:

Index\_comment:

1 row in set (0.00 sec)

ERROR:

No query specified

mysql> show index from employee\_tbl\G;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* 1. row \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Table: employee\_tbl

Non\_unique: 0

Key\_name: PRIMARY

Seq\_in\_index: 1

Column\_name: EMP\_ID

Collation: A

Cardinality: 13

Sub\_part: NULL

Packed: NULL

Null:

Index\_type: BTREE

Comment:

Index\_comment:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* 2. row \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Table: employee\_tbl

Non\_unique: 0

Key\_name: employee\_tbl\_index

Seq\_in\_index: 1

Column\_name: EMP\_ID

Collation: A

Cardinality: 13

Sub\_part: NULL

Packed: NULL

Null:

Index\_type: BTREE

Comment:

Index\_comment:

2 rows in set (0.00 sec)

ERROR:

No query specified

mysql> drop index temp\_emp\_id\_index on temp\_tbl;

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> show index from temp\_tbl;

Empty set (0.00 sec)