mysql> show databases;

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

| Database |

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

| arithmeticoperators |

| classwork |

| information\_schema |

| mysql |

| performance\_schema |

| sys |

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

6 rows in set (0.01 sec)

mysql> use classwork;

Database changed

mysql> create table employee\_tb1(ID int not null primary key,NAME varchar(40),WORK\_DATE DATE , DAILY\_TYPING\_PAGES int);

Query OK, 0 rows affected (0.05 sec)

mysql> desc employee\_tb1;

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

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

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

| ID | int | NO | PRI | NULL | |

| NAME | varchar(40) | YES | | NULL | |

| WORK\_DATE | date | YES | | NULL | |

| DAILY\_TYPING\_PAGES | int | YES | | NULL | |

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

4 rows in set (0.01 sec)

mysql> insert into CUSTOMERS values(1,'John',2007-01-24,250),(2,'Ram',2007-05-27,220),(3,'Jack',2007-05-06,170),(3,'Jack',2007-04-06,100),(4,'Jill',2007-04-06,220),(5,''Zara',2007-06-06,300),(5,'Zara',2007-02-06,350);

'> insert into employee\_tb1 values(1,'John',2007-01-24,250),(2,'Ram',2007-05-27,220),(3,'Jack',2007-05-06,170),(3,'Jack',2007-04-06,100),(4,'Jill',2007-04-06,220),(5,''Zara',2007-06-06,300),(5,'Zara',2007-02-06,350);

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'Zara',2007-06-06,300),(5,'Zara',2007-02-06,350);

insert into employee\_tb1 value' at line 1

mysql> desc employee\_tb1;

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

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

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

| ID | int | NO | PRI | NULL | |

| NAME | varchar(40) | YES | | NULL | |

| WORK\_DATE | date | YES | | NULL | |

| DAILY\_TYPING\_PAGES | int | YES | | NULL | |

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

4 rows in set (0.00 sec)

mysql> select \*from employee\_tb1;

Empty set (0.01 sec)

mysql> insert into employee\_tb1 values(1,'John',2007-01-24,250),(2,'Ram',2007-05-27,220),(3,'Jack',2007-05-06,170),(3,'Jack',2007-04-06,100),(4,'Jill',2007-04-06,220),(5,'Zara',2007-06-06,300),(5,'Zara',2007-02-06,350);

ERROR 1292 (22007): Incorrect date value: '1982' for column 'WORK\_DATE' at row 1

mysql> select \*from employee\_tb1;

Empty set (0.00 sec)

mysql> insert into employee\_tb1 values(1,'John','2007-01-24',250),(2,'Ram','2007-05-27',220),(3,'Jack','2007-05-06',170),(3,'Jack','2007-04-06',100),(4,'Jill','2007-04-06',220),(5,'Zara','2007-06-06',300),(5,'Zara','2007-02-06',350);

ERROR 1062 (23000): Duplicate entry '3' for key 'employee\_tb1.PRIMARY'

mysql> select \*from employee\_tb1;

Empty set (0.00 sec)

mysql> create table employee\_tb1(ID int not null,NAME varchar(40),WORK\_DATE DATE , DAILY\_TYPING\_PAGES int);

ERROR 1050 (42S01): Table 'employee\_tb1' already exists

mysql> DROP database employee\_tb1;

ERROR 1008 (HY000): Can't drop database 'employee\_tb1'; database doesn't exist

mysql> DROP table employee\_tb1;

Query OK, 0 rows affected (0.04 sec)

mysql> create table employee\_tb1(ID int not null,NAME varchar(40),WORK\_DATE DATE , DAILY\_TYPING\_PAGES int);

Query OK, 0 rows affected (0.03 sec)

mysql> insert into employee\_tb1 values(1,'John','2007-01-24',250),(2,'Ram','2007-05-27',220),(3,'Jack','2007-05-06',170),(3,'Jack','2007-04-06',100),(4,'Jill','2007-04-06',220),(5,'Zara','2007-06-06',300),(5,'Zara','2007-02-06',350);

Query OK, 7 rows affected (0.01 sec)

Records: 7 Duplicates: 0 Warnings: 0

mysql> select \*from employee\_tb1;

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

| ID | NAME | WORK\_DATE | DAILY\_TYPING\_PAGES |

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

| 1 | John | 2007-01-24 | 250 |

| 2 | Ram | 2007-05-27 | 220 |

| 3 | Jack | 2007-05-06 | 170 |

| 3 | Jack | 2007-04-06 | 100 |

| 4 | Jill | 2007-04-06 | 220 |

| 5 | Zara | 2007-06-06 | 300 |

| 5 | Zara | 2007-02-06 | 350 |

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

7 rows in set (0.00 sec)

mysql> SELECT \* FROM employee\_tbl;

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

mysql> SELECT COUNT(\*) FROM employee\_tbl ;

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

mysql> SELECT COUNT(\*) FROM employee\_tbl ;

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

mysql> SELECT COUNT(\*) FROM employee\_tb1;

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

| COUNT(\*) |

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

| 7 |

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

1 row in set (0.01 sec)

mysql> SELECT COUNT(\*) FROM employee\_tbl

-> -> WHERE name="Zara";

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '-> WHERE name="Zara"' at line 2

mysql> SELECT COUNT(\*) FROM employee\_tb1

-> WHERE name="Zara";

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

| COUNT(\*) |

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

| 2 |

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

1 row in set (0.01 sec)

mysql> select \*from employee\_tb1;

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

| ID | NAME | WORK\_DATE | DAILY\_TYPING\_PAGES |

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

| 1 | John | 2007-01-24 | 250 |

| 2 | Ram | 2007-05-27 | 220 |

| 3 | Jack | 2007-05-06 | 170 |

| 3 | Jack | 2007-04-06 | 100 |

| 4 | Jill | 2007-04-06 | 220 |

| 5 | Zara | 2007-06-06 | 300 |

| 5 | Zara | 2007-02-06 | 350 |

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

7 rows in set (0.00 sec)

mysql> SELECT MAX(daily\_typing\_pages)

-> FROM employee\_tb1;

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

| MAX(daily\_typing\_pages) |

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

| 350 |

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

1 row in set (0.00 sec)

mysql> SELECT id, name, MAX(daily\_typing\_pages)

-> FROM employee\_tb1 GROUP BY name;

ERROR 1055 (42000): Expression #1 of SELECT list is not in GROUP BY clause and contains nonaggregated column 'classwork.employee\_tb1.ID' which is not functionally dependent on columns in GROUP BY clause; this is incompatible with sql\_mode=only\_full\_group\_by

mysql> SELECT id, name, MAX(daily\_typing\_pages)

-> FROM employee\_tb1 GROUP BY name ;

ERROR 1055 (42000): Expression #1 of SELECT list is not in GROUP BY clause and contains nonaggregated column 'classwork.employee\_tb1.ID' which is not functionally dependent on columns in GROUP BY clause; this is incompatible with sql\_mode=only\_full\_group\_by

mysql> SELECT MIN(daily\_typing\_pages) least, MAX(daily\_typing\_pages) max

-> FROM employee\_tb1 ;

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

| least | max |

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

| 100 | 350 |

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

1 row in set (0.00 sec)

mysql> SELECT \* FROM employee\_tb1;

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

| ID | NAME | WORK\_DATE | DAILY\_TYPING\_PAGES |

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

| 1 | John | 2007-01-24 | 250 |

| 2 | Ram | 2007-05-27 | 220 |

| 3 | Jack | 2007-05-06 | 170 |

| 3 | Jack | 2007-04-06 | 100 |

| 4 | Jill | 2007-04-06 | 220 |

| 5 | Zara | 2007-06-06 | 300 |

| 5 | Zara | 2007-02-06 | 350 |

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

7 rows in set (0.00 sec)

mysql> SELECT MIN(daily\_typing\_pages)

-> FROM employee\_tb1;

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

| MIN(daily\_typing\_pages) |

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

| 100 |

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

1 row in set (0.00 sec)

mysql> SELECT id, name, work\_date, MIN(daily\_typing\_pages)

-> FROM employee\_tb1 GROUP BY name;

ERROR 1055 (42000): Expression #1 of SELECT list is not in GROUP BY clause and contains nonaggregated column 'classwork.employee\_tb1.ID' which is not functionally dependent on columns in GROUP BY clause; this is incompatible with sql\_mode=only\_full\_group\_by

mysql> SELECT \* FROM employee\_tb1;

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

| ID | NAME | WORK\_DATE | DAILY\_TYPING\_PAGES |

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

| 1 | John | 2007-01-24 | 250 |

| 2 | Ram | 2007-05-27 | 220 |

| 3 | Jack | 2007-05-06 | 170 |

| 3 | Jack | 2007-04-06 | 100 |

| 4 | Jill | 2007-04-06 | 220 |

| 5 | Zara | 2007-06-06 | 300 |

| 5 | Zara | 2007-02-06 | 350 |

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

7 rows in set (0.00 sec)

mysql> SELECT AVG(daily\_typing\_pages)

-> FROM employee\_tb1;

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

| AVG(daily\_typing\_pages) |

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

| 230.0000 |

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

1 row in set (0.00 sec)

mysql> SELECT SUM(daily\_typing\_pages)

-> FROM employee\_tb1;

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

| SUM(daily\_typing\_pages) |

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

| 1610 |

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

1 row in set (0.00 sec)

mysql> select SQRT(16);

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

| SQRT(16) |

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

| 4 |

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

1 row in set (0.01 sec)

mysql> SELECT \* FROM employee\_tb1;

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

| ID | NAME | WORK\_DATE | DAILY\_TYPING\_PAGES |

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

| 1 | John | 2007-01-24 | 250 |

| 2 | Ram | 2007-05-27 | 220 |

| 3 | Jack | 2007-05-06 | 170 |

| 3 | Jack | 2007-04-06 | 100 |

| 4 | Jill | 2007-04-06 | 220 |

| 5 | Zara | 2007-06-06 | 300 |

| 5 | Zara | 2007-02-06 | 350 |

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

7 rows in set (0.00 sec)

mysql> SELECT name, SQRT(daily\_typing\_pages)

-> FROM employee\_tb1;

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

| name | SQRT(daily\_typing\_pages) |

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

| John | 15.811388300841896 |

| Ram | 14.832396974191326 |

| Jack | 13.038404810405298 |

| Jack | 10 |

| Jill | 14.832396974191326 |

| Zara | 17.320508075688775 |

| Zara | 18.708286933869708 |

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

7 rows in set (0.00 sec)

mysql> SELECT RAND( ), RAND( ), RAND( );

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

| RAND( ) | RAND( ) | RAND( ) |

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

| 0.5686606229922367 | 0.9228396591943127 | 0.9082164577284981 |

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

1 row in set (0.01 sec)

mysql> SELECT RAND(1), RAND( ), RAND( );

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

| RAND(1) | RAND( ) | RAND( ) |

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

| 0.40540353712197724 | 0.7725633417931975 | 0.1381673665141383 |

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

1 row in set (0.00 sec)

mysql> SELECT \* FROM employee\_tb1;

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

| ID | NAME | WORK\_DATE | DAILY\_TYPING\_PAGES |

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

| 1 | John | 2007-01-24 | 250 |

| 2 | Ram | 2007-05-27 | 220 |

| 3 | Jack | 2007-05-06 | 170 |

| 3 | Jack | 2007-04-06 | 100 |

| 4 | Jill | 2007-04-06 | 220 |

| 5 | Zara | 2007-06-06 | 300 |

| 5 | Zara | 2007-02-06 | 350 |

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

7 rows in set (0.00 sec)

mysql> SELECT \* FROM employee\_tb1 ORDER BY RAND();

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

| ID | NAME | WORK\_DATE | DAILY\_TYPING\_PAGES |

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

| 3 | Jack | 2007-05-06 | 170 |

| 5 | Zara | 2007-06-06 | 300 |

| 4 | Jill | 2007-04-06 | 220 |

| 5 | Zara | 2007-02-06 | 350 |

| 3 | Jack | 2007-04-06 | 100 |

| 1 | John | 2007-01-24 | 250 |

| 2 | Ram | 2007-05-27 | 220 |

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

7 rows in set (0.01 sec)

mysql> SELECT \* FROM employee\_tb1 ORDER BY RAND();

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

| ID | NAME | WORK\_DATE | DAILY\_TYPING\_PAGES |

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

| 5 | Zara | 2007-06-06 | 300 |

| 3 | Jack | 2007-05-06 | 170 |

| 4 | Jill | 2007-04-06 | 220 |

| 3 | Jack | 2007-04-06 | 100 |

| 5 | Zara | 2007-02-06 | 350 |

| 2 | Ram | 2007-05-27 | 220 |

| 1 | John | 2007-01-24 | 250 |

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

7 rows in set (0.00 sec)

mysql> SELECT CONCAT('FIRST ', 'SECOND');

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

| CONCAT('FIRST ', 'SECOND') |

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

| FIRST SECOND |

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

1 row in set (0.01 sec)

mysql> SELECT \* FROM employee\_tb1;

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

| ID | NAME | WORK\_DATE | DAILY\_TYPING\_PAGES |

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

| 1 | John | 2007-01-24 | 250 |

| 2 | Ram | 2007-05-27 | 220 |

| 3 | Jack | 2007-05-06 | 170 |

| 3 | Jack | 2007-04-06 | 100 |

| 4 | Jill | 2007-04-06 | 220 |

| 5 | Zara | 2007-06-06 | 300 |

| 5 | Zara | 2007-02-06 | 350 |

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

7 rows in set (0.00 sec)

mysql> SELECT CONCAT(id, name, work\_date)

-> FROM employee\_tb1;

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

| CONCAT(id, name, work\_date) |

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

| 1John2007-01-24 |

| 2Ram2007-05-27 |

| 3Jack2007-05-06 |

| 3Jack2007-04-06 |

| 4Jill2007-04-06 |

| 5Zara2007-06-06 |

| 5Zara2007-02-06 |

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

7 rows in set (0.00 sec)

mysql> select 'Numeric Function';

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

| Numeric Function |

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

| Numeric Function |

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

1 row in set (0.00 sec)

mysql> SELECT ABS(2);

+--------+

| ABS(2) |

+--------+

| 2 |

+--------+

1 row in set (0.00 sec)

mysql> SELECT ABS(-2);

+---------+

| ABS(-2) |

+---------+

| 2 |

+---------+

1 row in set (0.00 sec)

mysql> SELECT ACOS(1);

+---------+

| ACOS(1) |

+---------+

| 0 |

+---------+

1 row in set (0.01 sec)

mysql> SELECT ASIN(1);

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

| ASIN(1) |

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

| 1.5707963267948966 |

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

1 row in set (0.00 sec)

mysql> select 'BIT\_AND(expression)';

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

| BIT\_AND(expression) |

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

| BIT\_AND(expression) |

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

1 row in set (0.00 sec)

mysql> SELECT

-> MAKER, BIT\_AND(PRICE) BITS

-> FROM CARS GROUP BY MAKER

-> SELECT

-> MAKER, BIT\_AND(PRICE) BITS

-> FROM CARS GROUP BY MAKER

-> SELECT

-> MAKER, BIT\_AND(PRICE) BITS

-> FROM CARS GROUP BY MAKER ;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'SELECT

MAKER, BIT\_AND(PRICE) BITS

FROM CARS GROUP BY MAKE' at line 4

mysql> SELECT

-> BIT\_COUNT(2) AS TWO,

-> BIT\_COUNT(4) AS FOUR,

-> BIT\_COUNT(7) AS SEVEN

-> SELECT CEILING(3.46);

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'SELECT CEILING(3.46)' at line 5

mysql> notee;