## Math Functions -Perform operation over numeric value

**POWER()** – power() returns the value of a number raised to the power of another number. The synonym of power() is pow().

```
Syntax - pow(m,n)
m A number which is the base of the exponentiation
n A number which is the exponent of the exponentiation
Mysql > select pow(2,3);
8
Mysql > select pow(2.37,3.45);
19.6282
select power(rollno, 2) from students;
```

**ROUND()** - the round() function returns a number rounded to a certain number of decimal places. Syntax - ROUND(column\_name,decimals) column\_name -Required. The field to round decimals -Required, Specifies the number of decimals to be returned Default decimal place is 0 position if we not specify

```
select round(454.352,2);
mysql>
   round<454.352,2>
                  454.35
  row in set (0.00 sec)
mysql> select round(454.352,0);
  round(454.352,0)
                       454
         in set
                    (0.00 sec)
  row
MySQL 5.6 Command Line Client
 ysql> select * from club;
                                    fees
  mcode
          mname
                            age
                                              type
                                   7000.45
8000.67
                                              Monthly
          Anshuman
                                              Monthly
  M2
           Aradhya
                              42
27
30
          Sushmita
Poorvika
                                    24000.8
                                              Yearly
                                    12000.2
                                              Quaterly
                                              Yearly
Monthly
                                    14000.
           Kritka
           Sandesh
                                     5000.
                                   40030.8
              Manchar
                                              Yearly
  rows in set (0.00 sec)
 ysql> SELECT mname, ROUND(fees) AS 'Fees' FROM club;
  mname
                   Fees
  Anshuman
                    7000
                    8001
  Aradhya
  Sushmita
                    24001
  Poorvika
                   12000
  Kritka
                   14001
                   15001
  Sandesh
                   40031
     Manohar
```

**MOD()** – The MOD() function returns the remainder of one number divided by another. The following shows the syntax of the MOD() function: Syntax - MOD(dividend, divisor) Dividend - is a literal number or a numeric expression to divide. Divisor- is a literal number or a numeric expression by which to divide the dividend

Mysql >SELECT MOD(11, 3);

2

Mysql >SELECT MOD(10.5, 3);

## 1.5

For given table item Display remainder after dividing rate by quantity

```
mysql> select * from item;

| ino | iname | rate | qty |
| 1 | soap | 124 | 50 |
| 2 | salt | 112 | 140 |
| 3 | sugar | 118 | 60 |
| 4 | oil | 280 | 60 |
| 5 | paste | 160 | 110 |
| 5 | rows in set (0.00 sec)

mysql> SELECT MOD(rate,qty) AS 'Remainder Rate/Qty' FROM item;
| Remainder Rate/Qty |
| 24 |
| 112 |
| 58 |
| 40 |
| 50 |
| 5 | rows in set (0.00 sec)
```

ABS(): Returns the absolute value of a number.

Mysql > SELECT ABS(-10); -- Result: 10

**SQRT()**: Returns the square root of a number.

Mysql > SELECT SQRT(25); -- Result: 5

RAND(): Returns a random floating-point number between 0 and 1.

Mysql > SELECT RAND(); -- Result: Random value between 0 and 1