# String functions

Trim	Removes extra spaces from	Select trim(" Hello ")		
	both side of the string	Hello		
Rtrim	Removes extra spaces from	Select rtrim(" Hello ")		
	right side of the string	Hello		
Ltrim	Removes extra spaces from	Select ltrim(" Hello ")		
	left side of the string	Hello		
Instr	It will find the position of	Select instr('welcome','lc');		
	the given string if string	3		
	exists.	Select instr('welcome','la');		
	Otherwise gives 0	0		
replace	It will replace all	Select replace('welcome lovely','l','x');		
	occurrences of the given	Wexcome xovexy all pccurances of I will get replaced		
	string with second string	by x		
Length	It will find how many	Select length('Welcome');7		
	characters are there in the			
	given string			
Format	It will display thousand	Select format(12345,2)		
	separator in number, and	12,345.00		
	also decide how many			
	decimal places after .			

# To insert a record

insert into emp values(123,'Rajan','Designer',7902,'2017-01-01',34567,3456,10);

To find employees who joined 5 years back

Select \*

From emp

Where year(hiredate)=year(curdate())-5;

## Date functions

year	То	Select year(curdate()) 2022
	retrieve	
	year	
	portion	
	from date	
month	То	Select month(curdate())10
	retrieve	
	only	
	month	
	from date	
day	То	Selec t day(curdate())
	retrieve	
	date from	
	current	
	date	

extract	То	Select extract(month from curdate())
	retrieve	Select extract(year from curdate())
	required	Select extract(day from curdate())
	part of	
	date	
datediff	To find	Select datediff(curdate(),'2021-10-30')
	difference	
	between 2	
	dates in	
	the form	
	of days	
Date_add	To find	SELECT
_	date after	'2015-01-01' start,
	one day or	DATE_ADD('2015-01-01', INTERVAL 1 DAY) 'one day later',
	week or	DATE_ADD('2015-01-01', INTERVAL 1 WEEK) 'one week later',
	month or	DATE_ADD('2015-01-01', INTERVAL 1 MONTH) 'one month later',
	year	DATE_ADD('2015-01-01', INTERVAL 1 YEAR) 'one year later';
Date_sub	To find	SELECT
_	date	'2015-01-01' start,
	before	DATE_sub('2015-01-01', INTERVAL 1 DAY) 'one day later',
	one day or	DATE_sub('2015-01-01', INTERVAL 1 WEEK) 'one week later',
	week or	DATE_sub('2015-01-01', INTERVAL 1 MONTH) 'one month later',
	month or	DATE_sub('2015-01-01', INTERVAL 1 YEAR) 'one year later';
	year	
Week	Find the	Select week(curdate())
	week out	
	of 52	
Quarter	Find	Select quarter(curdate())
	quarter of	
	the date	

1. Find all medicines which are expiring within 4 months

## Select \*

From medicine

Where expdate between curdate()+5 and date\_add(currdate(),interval 4 months);

2. Find all products manufactured within these 4 months.

## Select \*

From products

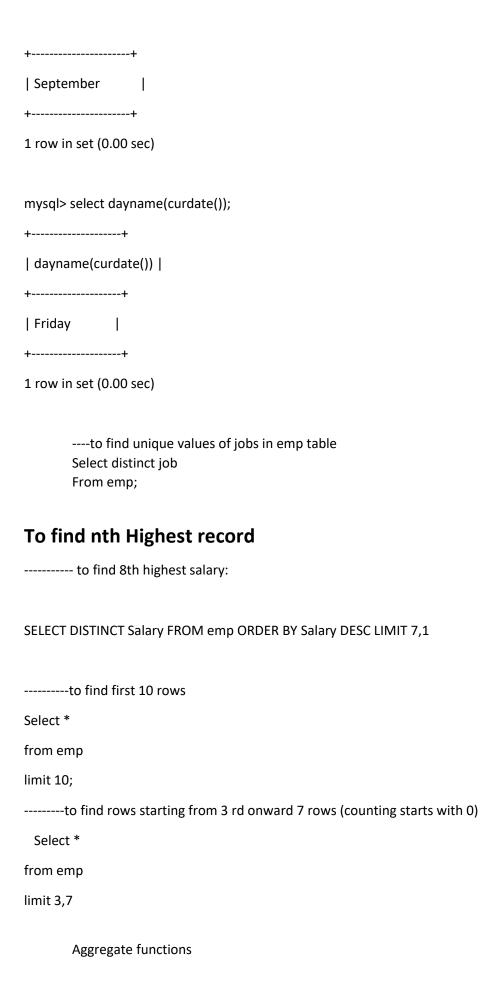
Where mfgdate between date\_sub(currdate(),interval 4 months) and curdate();

Find date which is after 2 years 6 months 3 days
Select date\_add(date\_add(curdate(),interval 2 years),interval 6 month),interval3 days)

Find all employees who joined in feb 1980 or feb 1981
Select \*
From emp
Where year(hiredate) in (1980,1981) and month(hiredate)=2;

1. To format a date value, you use <code>DATE\_FORMAT</code> function. The following statement formats the date as mm/dd/yyyy using the date format pattern m/d/Y:

SELECT DATE_FORMAT(CURDATE(), '%m/%d/%Y') today;
++
today
++
07/13/2015
++
1 row in set (0.02 sec)
SELECT DATE_FORMAT(CURDATE(), '%M, %D %y') today; y will show 2 digit year
Y will display 4 digit year
ywill display 2 digit year
M- month name in character
m-month in number
d- date in number
D- display th or st after date
++
today
++
September, 21st 18
++
select monthname(curdate());
++
monthname(curdate())



When we want to calculate aggregate values for group of rows then we use these functions Sum, avg, min,max,count Count(\*) will count all rows Count(sal) will count only not null values in sal column Count(comm) will count only not null values in comm column

For these functions group by and having clause

Find sum and avg of sal and netsal for each job
 Select job,sum(sal),avg(sal),sum(sal+ifnull(comm,0)),avg(sum+ifnull(comm,0))
 From emp
 Group by job
 Order by by job;

 Find how many analysts are there in each department Select deptno,count(\*)
From emp Where job=analyst Group by deptno;

3. Find sum, average of salary for all employees whose sal> 1500 departmentwise;

Select deptno,sum(sal),avg(sal) From emp Where sal > 1500 Group by deptno;