to arrange the data in sorted order of job and display rows from 3rd row to 4th row select * from emp order by job limit 2,2 to display all employees with job starts with S or A and name starts with A or M and ends with e or r A%e A%r M%e M%r select * from emp where (job Like 'S%' or job like 'A%') and ename like 'A%e' or ename like 'A%r' or ename like 'M%e' or ename like 'M%r; Select * from emp where job REGEXP '^[SA]' and ename REGEXP '^[AM].*[er]\$'; Functions are of 2 types 1. single row function----- the function which can be executed on single row is called as single row functions example lower(), upper(),round(),truncate(),ceil, floor 2. multirow function ---- aggregate The functions which we execute on multiple rows, it is called as multi row function avg(),sum(),min(),max(), count() String functions 1. ASCII(str) ---→it will print the ascii value of first character 2. $lower() -- \rightarrow it will convert the string in lower case$ 3. upper()-- \rightarrow it will convert the string into uppercase 4. concat(str1,str2,str3,.....) ----- concatenate all the strings and will display the o/p select concat(ename,",",job) Data -> from emp; select concat("Welcome ",ename) from emp; to genearate email concat(ename,'.',job,'@mycompany.com')

5.	digits after decimal point format(sal,2) 345.00
	4567.00
	12,345,677.00
6.	<pre>INSTR(str, substr) - finds the position of first occurrence of substring in a string select instr("this is two wheeler","two wheeler") ->;</pre>
	++
	instr("this is two wheeler","two wheeler")
	++ 9 +
	1 row in set (0.00 sec)
	mysql> select instr("this is two wheeler", "two wheeler1234") ->; t
	instr("this is two wheeler","two wheeler1234")
	0
	1 row in set (0.00 sec) assume that we have one product table which has(prodid,pname,qty,price,pdesc) select prodid,pname,qty,price from product
	where instr(pdesc,"two wheeler") > 0;
7.	substr(str,pos,len) it will retrieve len number of characters from the given string starting from the position len is optional
	substr('Hello how are you!!',3,5) llo h
	substr('Hello how are you!!',3)
	llo how are you!! substr('Hello how are you!!',-5)
8.	you!! TRIM(str)→ it will remove all leading and trailing spaces trim(' hello ')→ hello
	To remove only spaces from left side then use Itrim
_	To remove only spaces from right side of the string use rtrim
9.	LPAD which pads a string on left side
	Rpad which pads a string on the right side length(str) it will count how many characters are there in a string
_•	5 (, , , , , , , , , , , , , , , , , ,

date related functions

```
1. now() ---- to display current date and time
default date format in mysql is yyyy-mm-dd
2. curdate() ---- to display today's date only and not time
3. date format(date,format)----→select date format(curdate(),'%d/%m/%Y')
     Y ---- for 4 digit year
     y----for 2 digit year
     m ---- for month in number
     d--- for date
     D to add th in date
select date_format(curdate(),'%d/%m/%Y');
+----+
| date_format(curdate(),'%d/%m/%Y') |
+----+
| 21/03/2022 |
+----+
select ename, hiredate, date_format(hiredate, '%M')
 -> from emp;
+----+
| ename | hiredate | date_format(hiredate,'%M') |
+----+
| SMITH | 1980-12-17 | December
| ALLEN | 1981-02-20 | February
| WARD | 1981-02-22 | February
| JONES | 1981-04-02 | April
4. datediff(date1,date2)---- difference between 2 dates
   select datediff('2015-11-23',2014-11-23') days
   365 days
   suppose we have medicine table (name,id,expdate)
   select id,name,expdate
   from medicine
   where datediff(expdate,curdate()) between 10 to 90
5. date_add(date, interval 1 week)--→ will display date one week after
   date_add(date, interval 1 month)
   date_add(date, interval 1 year)
   date_add(date, interval 1 day)
6. date_sub(date, interval 1 week)--→ will display date one week after
   date_sub(date, interval 1 month)
   date_sub(date, interval 1 year)
   date_sub(date, interval 1 day)
7. day---- to find day part of date
8. month---- to find day part of date
```

```
9. year---- to find year part of date
10. quarter----- to find day quarter of date
11. extract---- will retrieve part of date
   exctract(day from currdate())----→only date
   exctract(month from curdate())---only month
   exctarct(year from currdate())----→only date
12. dayname(curdate())
   Will show you name of the day like Monday, Tuesday
13. monthname(curdate())
   Will show you name of the month like March, January,.....
   list all employees who join 3 months before current month
   select *
   from emp
   where month(date_sub(curdate(),interval 3 month))=month(hierdate)
   To list all employees who join last year
   year(curdate())-1
   year(date_sub(curdate(),interval 1 year))
   select *
   from emp
   where year(hiredate)= year('1981-12-1')-1
   To find all employees whose number of years of experience is 40
   floor(date_diff(curdate(),hiredate)/365)=40
   select empno, ename, hiredate, floor(datediff(curdate(), hiredate)/365) experience
   from emp
   where floor(datediff(curdate(),hiredate)/365)=40;
   list all employees empno, ename, hiredate and display only joining year of a
   employee
    select empno, ename, hiredate, year(hiredate)
   from emp
   to generate the code ---- 1st 3 characters if job, 1st 3 chracters of ename
   select ename,job,concat(substr(ename,1,3),substr(job,1,3))
   from emp
```