Always display date in dd-mm-yyyy format

- Find all products which are expiring in august.
 Select pid,pname,date_format(mfgdate,''%d-%m-%Y'), date_format(expirydt,''%d-%m-%Y')
 From perishableprod
 Where month(expirydt)=8;
- 2. Find all products which are expiring in august 2021.

Select pid,name,date_format(mfgdate,'%d-%m-%Y'), date_format(expirydt,'%d-%m-%Y')

- -> from perishableprod
- -> where month(expirydt)=8 and year(expirydt)=2021;
 - 3. Find all products which are manufactured in 2021

Select pid,name, date_format(mfgdate,'%d-%m-%Y'), date_format(expirydt,'%d-%m-%Y') from perishableprod

Where year(mfgdate)=2021;

4. Find all products which will expire after 4 months

Select pid,name, date_format(mfgdate,'%d-%m-%Y'), date_format(expirydt,'%d-%m-%Y') from perishableprod

where month(expirydt)= month(date_add(curdate(),interval 4 month))

and year(expirydt)= year(date_add(curdate(),interval 4 month))

5. Find expiry date of product, if it is after 4 months after mfgdt

```
Select pid,name, date_format(mfgdate,'%d-%m-%Y'), date_format(date_add(mfgdate,interval 4 month),'%d-%m-%Y')expirydate from perishableprod where expirydt is null;
```

6. Find all products with name starts with p and ends with e.

Select *

From perishableprod

Where name REGEXP '^p.*e\$'

7. Find all products with name starts with either p or m and ends with x or n $\,$

Select *

From perishableprod

Where name REGEXP '^[pm].*[xn]\$';

8. Find all products with name starts with p , d at either 2^{nd} or 3^{rd} position and ends with either f or t

Select * from perishableprod

Where name REGEXP '^p.?d.*[ft]\$';

9. Find all products ends with either id or d

Select *

From perishableprod

Where name REGEXP '(id|d)\$'

Or

Select *

From perishableprod

Where name REGEXP 'i?d\$'

10. Find all products ends with either id or i

Select *

From perishableprod

Where name REGEXP 'id?\$'

11. Find all products ends with ed or tf

Select *

From perishableprod

Where name REGEXP '(ed|tf)\$

12. Find all products starts with m and ends with g, or it may start with y and ends with f Select * from perishableprod

Where name REGEXP '^m.*g\$|^y?.*f\$;

Number related functions

Round Truncate Ceil floor

round	Round the the number	Round(12.3456,2) = 12.35
	upto given decimal places	Round(12.3446,2) = 12.34
truncate	truncate the number upto	truncate(12.3456,2) = 12.34
	given decimal places	truncate(12.3446,2) = 12.34
floor	It will remove the fraction	floor(12.34)=12
	portion	floor(12.56)=12
		floor(-12.77)=-13
		floor(-12.45)=-13
ceil	It will remove the fraction	Ceil(12.34)=13
	portion and gives you the	Ceil(12.56)=13
	next number	Ceil(-12.77)=-12
		Ceil(-12.45)=-12
abs	It will convert -ve number	Abs(-11)=11
	into +ve number	Abs(11)=11

String related functions

upper	Converts the	Upper('abcd')='ABCD'
	string in	
	uppercase	
lower	Converts the	lower('ABCD')='abcd'
	string in	
	lowercase	
Substr(string,start,length)	It will retrieve	Substr('Hello',1,3)=hel
	the portion of	
	the string from	
	the given	
	position	
Concat(str1,str2,str3,)	It will	Concat('aaa','bbb','ccc')=aaabbb
In oracle you can pass only 2	concatenate all	ссс
string	the strings and	
	return one string	
Lpad(string,length,string to add	It will add string	Lpad('hello',10,"*")=****hello
on left)	on the left side	
	so that the	
	length of the	
	resultant string	
	will be 10	
Rpad	It will add string	Lpad('hello',10,"*")= hello*****
	on the left side	
	so that the	
	length of the	
	resultant string	
	will be 10	

Ltrim	To remove extra	Ltrim(" hello ") = hello
	spaces from left	Zermin neme y meme
	side	
Rtrim	To remove extra	rtrim(" hello ") = hello
The state of the s	spaces from	Termity meno y meno
	right side	
Trim	To remove extra	trim(" hello ") = hello
	spaces from	tilling nello j = nello
	both side	
Length	To find length of	Length("hello")=5
Length	the string	Length hello)=3
Format(X,D)	Formats the	
	number X to	
	a format like	
	' #,###,###.#	
	#', rounded	
	to D decimal	
	places, and	
	returns the	
	result as a	
	string. If D is	
	_	
	0, the result	
	has no	
	decimal point	
	or fractional	
	part.	
Reverse	Reverse the	Reverse("hello)=olleh
	given string	
Insert(string,pos,length,newstri	From the given	Insert("Welcome
ng)	string it will	everybody",4,6," xxxxxxxxx ")
	remove length	Wel xxxxxxxx verybody
	number of	
	characters from	
	pos position and	
	will be replaced	
INICTO ()	by new string	
INSTR(str,substr)	INSTR() takes a	Instr("hello","Il")
	string and a	3
	substring of it as	
	arguments, and	Instr("hello","xx")
	returns an	0 ' '
	integer which	
	indicates the	
	position of the	
	first occurrence	
	of the substring	
	within the string	
	<u> </u>	

[:===/:::::::::::::::::::::::::::::::::		
LEFT(string,length)	LEFT() returns a	Left("Welcome",3)=wel
	specified	
	number of	
	characters from	
	the left of a	
	given string.	
	Both the number	
	and the string	
	are supplied in	
	the arguments	
	as str and len of	
	the function.	
right(string,length)	right() returns a	right("Welcome",3)=ome
1	light() returns a	right welcome ,5,-ome
		rigitt(welcome ,5)-ome
	specified number of	rigitt(welcome ,5)=ome
	specified	right(welcome ,5)-ome
	specified number of characters from	right(welcome ,s)=ome
	specified number of characters from the right of a	rigitt(welcome ,5)-ome
	specified number of characters from	right(welcome ,s)=ome
	specified number of characters from the right of a given string. Both the number	rigitt(welcome ,5)=ome
	specified number of characters from the right of a given string. Both the number and the string	rigitt(welcome ,5)=ome
	specified number of characters from the right of a given string. Both the number and the string are supplied in	rigitt(welcome ,5)=ome
	specified number of characters from the right of a given string. Both the number and the string are supplied in the arguments	rigitt(welcome ,5)=ome
	specified number of characters from the right of a given string. Both the number and the string are supplied in the arguments as str and len of	rigitt(welcome ,5)=ome
	specified number of characters from the right of a given string. Both the number and the string are supplied in the arguments	rigitt(welcome ,3)=ome

Distinct keyword

To find unique values of a column we use distinct keyword

1. To find different jobs in emp table

Select distinct job

From emp;

2. To find different salaries in emp table

Select distinct sal

From emp;

Order by

- It is used to arrange the data in ascending or descending order
- Desc or asc should be written separately for each colmn

- Aggregate functions can be used in order by clause
- Order by allows 256 columns

Select *
From emp
Order by sal desc
Limit 1;

 To find fifth highest salary valye Select distinct sal From emp Order by sal desc Limit 5 offset 4

Group by and having

- Group by clause helps to divide the table into groups based on some field or fields
- While using group by, in select statement you can add only columns which are used in group by clause

Multirow functions (Aggregate function):

avg	Find average value	Avg(sal),avg(ifnull(comm,0)),avg(sal+ifnull(comm,0))
	for a group	
min	Find min value for	Min(sal) min(sal+ifnull(comm,0))
	a group	
max	Find max value for	Max(sal) max(sal+ifnull(comm,0))
	a group	
sum	Find sum value for	sum(sal) sum(sal+ifnull(comm,0))
	a group	
count	Find count value	Count(*) it will count all values including null
	for a group	Count(comm) it will count all not null values

 To find sum of sal and count number of employees in each department Select deptno,sum(sal),count(*)

From emp

Group by deptno

2. To find sum of sal and count number of employees in each department if the number of employees in the department are >=5

Select deptno,sum(sal),count(*)

From emp

Where sal>2000;

Group by deptno

Having count(*)>=5;

 Find how many salesmans are there in each department Select deptno, job,count(*)
 From emp

Where job ='salesman'

Group by deptno;

4. Find sum of sal for all analyst and manager for each department Select deptno,sum(sal)

From emp

Where job in ('ANALYST','MANAGER')

Group by deptno

5. Find minimum salary of SALESMAN

Select min(sal)

From emp

Where job='SALESMAN'

6. Find maximum salary of CLERK

Select max(sal)

From emp

Where job='CLERK'

7. Find min salary, maximum salary ,count, average of sal,sum of sal For each job, arrange it on number of employees in a group Select job,min(sal),max(sal),count(*),avg(sal),sum(sal)

From emp

Group by job

Order by count(*)

8. Find sum of salary , average of salary, count for all employees who earned commission

Select sum(sal),avg(sal),count(comm)

From emp

Where comm !=0;