SELECT Stato get datas

Select < datumn names > 2 Projection

from 

! Where < condition ! = Selection

- > select & from Emp \$4.>

  4) get all records from Emp Dable.
- > Select ename, design from emp.
- =) Select distinct ename, desigo from emp Ly duplicate records will be removed from result.

a plant and a more many states of

=> select & from emp where dept = Health; by get all employee from emp where department is health.

Like clause =>

-> String Pettern match

=> we have 2 wildcard Characters.

/ => 0, 1 or more than 1 character.

location is not null;

- => exactly for 1 character.

9 => List all the employees whose location starts with 'J'

>> Select & from emp where location like 'J'.';

9-> List all employees whose name starts with "A" of is of only 4 characters.

=> select & from Emp where name tike A\_\_\_\_;

'A---','

Emp

eid   cmame		dept.no.
1	A	101
2	B	102
3	c /	101

Dept.	
d-id	of-name
101	CS
102	IT
day you	

g we want

1	A	CS
2	В	IT
3	1	CS
	1	

I wedo, Select & from Eng, Dept, we will get.

ei	d ename	dept. no.	d-id	d-nama e
1	A	101	101	cs
1	A	101	102	IT
2	B	102	101	CS
2	B	102	102	IT
3	C	101	101	CS
3	C	101	112	IT

Our output will be cartesian product of two tables.

Then cartesian product will give he a table with 6 relards

A In case of attributes we can have max (RI + R2)

Select concid, ename, dename from emp, dept

where did = d.no;

1	A	CS
2	B	H.T.T.
3	-i	0 1 5

20/2/24

Select & from emp // we cannot predict
the order.

To get data in some orders we have to use "Order by" clause.

=> Select & from emp Order by salary;

Stydefault ascending?

-> delect \* from emp Order by Salary desc.;

Emp		Outgout
enane	Salary	There of b 6 45000
99	50000	order 60 45000
96	50000	ppredicatatle a 50000
66	45000	John 7 ab 50000
6 C	45000	{66,66€ \$ (aa, ab)

> Select & from emp order by Salary, ename desci,

and in case salary is same we con will have ename in descending orders

Output

96	450000
9	50000
ЬС	45000
ЬЬ	450000
	The state of the s

In SQL we have 5 Aggregate Functions

Select mare (salary) from Emp;
Output => 50000

# Select min (Salary) from emp; Outsput = 45000

# Seatest Sum (salary) from emp;

Deutput => 199000

# select Avg (salary) from emp; Output > 47,500

# Select (ourt (\*) from emp; Output => no. of records.

=> Selbert aug (salary) from emp where desig = 'IA';

Group By & Clause &

90 I want to find total salary given to all specific posts in the department.

expected output =>

IA	2500000
AP	10000000
200	
ACP	
5A	

Select desig, Sum (subaptrom Emp Corroupby desig;

In group by clause sat projection we can have attribute that we group by (eg desig)

and any aggregate function.

group by with Sub group =>

300000 26

and we also want to group desig by location.

and find total salary occurringly

Jean Emp group by desig, location; sum (salary)

Jesig Leocation (Salary)

JA BKN 2500000 F TA JPR 10000000 F TA AJM 5000000 F AP BKN Let's say we want group desig by location and want sumonly so groups with sum of salary higher than slaws => Select desig, Location, Sum (salary) from Emp group by desig, location, having sum (salary) >500000;

21/2/24

If we want to use where clause with group by it will used before it & in case of Order clause will be after group by & group by - having?

Emp

eid	enaame	did	
1	A	101	
2	B	102	
3	C	101	
4	P	103	847
5	E		טט
1	F	Dull	

did	dname
101	CS
102	ET
103	EC
104	EE

Emp Dept - Inher Join

Left Duter Join

Right Outer Join

Full Seuter Join

① Jhner Join >

Select eid, ename, dname from Emp

inner join Dept on Emp. did = dept. did;

Output-

eid	ename	dname
Lo h and	A	L.S
2	B	BOW IT
3 quar	A Company	CS
94	P	EC

Select eid, ename, d'nome from Emp Left join Dept on Enp. did = Dept. did;

	eid	ename	dname
	3-1	A	c s
	2	B	II
	3	c	c5
of the	4	D	EL
	5	E	ווטעו
	6	F	NVII

## 5) Right Join

solect eid, ename, dname from Emp Right join Pept on Emp. did = Dept. did;

	1-	THE THE PERSON
eid	ename	dname
	A	CS
2	В	IT
3	C	CS
4	. 8	EC
4/10	TON MA	ALLEGA DE SE
NUII	Null	EE

(4) Full Outer Join

=> Select eid, ename, dname from Emp Owter join Dept on Emp. did = Dept. did;

eid	ename	dname
1 - 9:	A	CS
2	B	IT
3	_	c 5
4	D	EC
5	E	NULL
6	£	NULL
-		EE

In and NoT In for , Set matching

- => Select \* from Emp where

  desig = 'IA' and location in { Bharatpur', Koruli' }

  , Dansa' 3';
- Select & from Emp where desig = 'IA'
  and location in not in & Bharatpur', 'Karauli',

  Dansa' 3;

Set Comparison >

9) get all poens list whose salary is greater than

riot puto lust

- Programmer.
- => Select & from Emp where desig = 'Peon'
  and Salary > Some (Select Salary from Emp
  where desig = 'Prog');

Older edition Jused to use 'Any' instead off 'Some' for same meaning/use

- Det all poons list whose salary is greater than all programmers.
- Select \* from Emp where desig = 'Peon' and

  Salary > All & Select Salary from Emp where

  desig = 'Programmer' &;

6' moderal / street ) amodale mille of the out of

other in out of the on or a sing (s)

Done - Day middle middle son

- francisco Lordon Cordon Co. L. J.

Agangued Lovered many oned and

Herman militial sports 6 133

Select durop -> alter L. Truncate

DDL = Data Refinition Language DML => Data Manipulation Language TCL => Transaction Control Language DCL => Para Control Language DQL -> Data Query Language SDL 2 Storage définition language

@ DDL => To define Schema (Table / Database's

DML = To Modify data in Table

Queries Kelated to the transaction.

for defining methods of storing data.

To give of take permission to users;

O Crrant =>

# grant delect, update on emp to Ramesh, Survesh;

2) Revoke =

2

# Revoke select, update on emp from Ramesh;

## Detrucen Clause =>

O we want to identify all employees whose salary is between 50000 & 70000

D Select & from Emp where Salary = = 50000 And Salary <= 70000;

Delect & from Emp where Salary between 50000 and 70000 be inclusive

we can also use (not between) as

3) beleet & from Emp where Salary between 50000 and 700000;

Subset of database which can be used as Table on fly & That does n'+ get stored? - Virtual Jable

- -> for security purposes
- -> To avoid accidental damages.
- => For updatable views & if DBA allows updation from view }
  - -> View should not be created by group by Or having danses.
  - > The view should be not be created by using more than one tables.
  - for insertion of reward through view, all the attributes other than attributes of a View should not be Not NULI";

Commanted > => Create View V & ( select ename, salary, e mobile from emp); -> select errane from V; - At it is at the test property of the and the property of the same o and the second of the second o rinches about ABA Light Mois Vibortabally viot e of the Views Ind mark had been and the county of assured pariment 12 released and toward blood coiv all f wains more than one taked. He coil reports brown to reiner view, all the other than attended of avien " " Hara told sed tour blanch