SQXBolt. code with harry handbook'

Osax Boit.

D 391- practice.

- select column from table\_name @ tels-code

where condition AND/OR another condition.

Operator

where clause:

Condition

=,!=,<,,<=,>,>=

standard numerical operators.

number is within range of pralue,

-a: colnaire between 1.5 and 10.5 number is not within range of 2 values. - ar col name not between 1 and 10.

number exists in list ex :cd-non in (2,4,6)

number does not exist in a list

case sensitive l'exact string comparision).

15 09 <>

like

case insensitive exact string compared

used anywhere in a string to match a sequence of zero or more characters Concy with like of not like) Ex! col name like "" AT " (matches "AT", "ATTIC", "CAT; BAS)

used anywhere in a string to metilia single character (only with the or not like) G; colname LIKE "HU\_"

(matches "AND", but not in N")

?n

not in

Filtering & sorting Overy Assults.

-> DISTINCT: \_ genoves duplicate codesson so ws

Political Septimina South Part Colonia

-) GROUP BY

- ORDERBY - sort.

shows of JUMIT

post of JOFFSET

sexuits

O DISTRICT: - director

select distinct year from moviep.

Gives only unique director names of year

DORDERBY.

select + from movies order by year DESC

BUMIT and DFFSET

Syntax: - SELECT of from table order by column MMIT modrows OFFSET start-position.

tx: select title from movies order by year desc limits 5 offset 10: First first 10 gives 5 movies starting from 11th movies.

### Inner Join,

Jesin & same as inner join
get will return matched sows from both tables.

Syntax: select colonares, from many table join
another-table on mytable, i'd= anoth table. otherd
where conditions, order

Outer Join

Left Outer Join or Left Join

Right Outer Join or Right Join

Full Outer Join of Full Join

Same syntax as join but in place of join we will write sight join, left join, full join we i.e., select colnanes. from mytable left join/ sight join /full join another on mytable id: another, of

-) In left join! r'includer all sows of left table sonly matching sows of right table.

-) fall join : Prolude both tables.

### NUUS.

-) In SOL, null means "no value" of "unknown"

-) Et is not same as D, false of an empty string,

-) NULL 18 completely empty—the data missing

-> first like angle, countles & conditions like'=' don't

work mormally with null.

Syntage to check NULL:

where col is NULL

"" is not NULL

Syntap: select agg-func (col-name) at agg-desc, ... from

My-table where condral - ;

court (\*), count (column), sum (column), ang(col)

Min(101) max(col)

your by: -- group by 11 wed to group gover that have the same value in one of more and cols.

-Syntax: select col, agg-fn (other\_col) from table where con, group by col

- grouping happens after filtering with where.

ex: select valing, ang (sales) as ang sales from movies group by saling

a) we can also group by a cols.

still apply where first, then do grouping. So to apply fitters on group we use having clause.

# Having

Ge select rating, count (\*) as movie count from movies group by vating having count (\*)>2;

STATE THE

Sury order of execution.

- i) from and joins
- a) where
- 3) groupby
- H) having
- 5) select
- 6) distinct
- 7) order by
- 8) limit loffset

# Enseat Ponto table

insert into movies (title, year) values ('Toy', 2012) values

insert into movies values ('Toy', 2012, 8.7, 90);

insert into movies (title, year) values ('Toy');

error,

## opdate table soms

Syntax: update table name set coll=valuer,
cola=valuer where condition;
n if u dont write where condition all sown are effected

#### delete!

unless i have backup or a transaction, works only before i commit, once commited in can't soll back.

Syntax: delete from mytable where condition:

# Create a table

Table data types: integer, int. bootean, float, double,
sed, character (num.chars), varchar(num.chars),
text, data, date time, blob (binary data)

constraints: proimary key, autoincrement, unique, not null,
check (expression), foreign key, default
check (expression), foreign key, default
primary tey autoincre

Alter Table:

4 change the design,

-) rename a col - alter table movies rename old to new

add a new col ratter table movies add column dirter

-) change col datatype-alter table movies alter column year

-) drop (remove) col-alter table movies drop column rating

Drop table!

drop hable table name

=0=

SubQuery.

It is full select statement nexted inside another of query

- subquery must be enclosed in paranthesis.

-) some implementations don't allow subqueries to use this to officet.

Deliquery in a where clause (Single value).

-Cr. select \* from sales associates where

salary > (select ang(sevenue) from

sales - associates).

sinner query gives any then outer query filter it

The type of subquery using IN West of values)

the type of subquery actuons a list, and

you check if a value exists in that list.

ex, select name from customers where id

Rn (select from orders where order-date>=

1 2024-01-01')

returns name of all customers who placed orders in

3 Correlated Subquery: tiere, a value from outer query suis de Inner quesy that means the enner subquery runs once per now in the outer query Ex: select + from students s where marks > (select ang (marks) from students where class = s-class);

Table:

name	class	marks	0/6:		
Alice	lo.A.	80	Kame	class	mark
1306	10 A	60	Ali ce	10 A	80
charlie	103	20	charli	IOB	90
David	10B	50,			

BOTED = 70-10A 108-60. Ali- 80200 . char .702605 Bob 60290 x David SD>60x

Another ways select customer-id, total-spent from (select customer -id, sum(total-amount) as total-spert from orders group by customer-i'd) as customes - totals where totals total-spent > 600.

Syntan: select col, annucol from mytable union lunion all lintersect l'except promother table order by col des a limit n;

or apply limit on output that is generated after applying set operation.

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PORCH FROM PRINCE - MANAGE - M

Trailed of the property of the spring of the form

in ( Housenes Lietar Janes)

bi- constructed ground contraction

eduction of applications and the company