SQL Hooden matter @ Creating & Restoring database Creating attendence a data base -> Greate a database Clusson detisor -> Click create detabase -> Nume it that's it -> Restring detabase -> Click on detabase -> negtobile -> location that's of (2) Restoring a table Schema Ly Lable names & Data type only, No actual dete Create a New datasall Respector place at in filepath Refore options 1
> type of Spects
> only Schema No data is there 1. just table schema ? New one it in Existing database already Restore option 1 Lytype q bjects

y only schema Restore of ton 2 > Queries -> Clan befre setter Than

Scanned by CamScanner

## 3 SQL Statement Fundamentals

13-1) SECECT Statetement

->> Syntax

SELECT Columns, Columna, ---- FROM table None

First, you specify a list of Columns in the fable from which you ward to query data in the SELECT Clause, you use a Comma between each Column in Case of you whant to grery data from multiple Columns.

If you Want to query data from au Clumn, you Can & USE an asterisk (\*) as the Shorthand for all Glumns.

-> Selond, you indicate the table hame after the \$5 FROM Keyword. It is not good Phothico to use the (\*) in the SELECT statement.

horder & intrede the treffic between the database server & applications. As a result, it shows down Your application.

Therefore; You should specify the Column names in the state SELECT of Clause whenever pssble to get only necessary data from a table.

Eg: - SELE (7 \* FROM octor;

SELECT first-name, lost-name From ack;

SELECT actor- 2d From actor;

## 3.2) SELECT DISTINCT Statement

-> In a table, a Column may Contain many duplicate values; and sometimes you only want to list the different (distinct) values.

The DISTINCT keyword Con be used to return only distinct (different) values.

Syntax

Eg = SELECT DISTINCT release year FROM film; SELECT DISTINCT rental-rate FROM film;

### 33) SELECT WHERE Statement

- In the previous lectures, you've learned how to use the SELECT statement to guery date from a table.
- what if you want to query just perticular sous from a table?
- In this Case you need to use the

Syntax

SELECT Column 1, Column 2.... Column FROM table-name
WHERE Conditions;

First Name = Jamie

SELECT lost-name first-name

FROM Customer

WHERE first\_name = "Jamie"; -> tust first name

WHERE first-name = Jamie AND last-name = Rice; 4 Bett first & lest Forme

SELECT Cast-id, amount, Payement-date, Rental amount amount which lass hand >= 8. Hen I frestrector 8 years than 8 yr

SELECT \* FROM payment ? where from suith where amount = 7.99; amount if 7.99

WHERE amount <= 4.99; -> less than / Equal to 4.99

AND = Beth Glum 3 -

# 3.4) COUNT Statement

The COUNTY Sunction returns the no ginguit Trows that match a specific Condition g a query.

SELECT COUNT(\*) FROM table;

The COUNT (\*) Junction gratural the NO 9

The Count (\*) Junction gratural the NO 9

The Count (\*) to the

-> When you apply the COUNT (\*) to the Entire table, Postgruss SQL Stans table sequentially

-> you Can also specify a specific Column Court for readability.

SELECT COUNT (Column) FROM table;

-> It does not include Mull Values -> We Can use COUNT with DISTINCT, Eg: SELECT COUNT (DISTINCT Column) From table;

SELECT COUNT(\*) From payement; SELECT COUNT ( DISTINCT amount) F-ROM · payament; ) LIMIT Statement Timit allows you to limit the NO g Irows you get back after a quory to get all Column but not all sows of Grows at the End of guery. SELECT \* FROM Colomor ) Just 5 hors LEMIT 5;



### ORDER BY Statement

I when you query date from a table, postgres Sal returns the rows in the order that they the where inserted into the table.

-> En 8 der to Sort the result set, you Use the ORDERIBY Clause in SELECT sket

The ORDER BY Clause allows you to Sort the Irons returned from the SELECT Statement in ascending or descending order based on Criteria specified.

Syntax

SELE CT Column\_1, Column\_2

FROM table\_name

ORDER BY Column\_1 AST/DESC;

-> If you leave it blank, the default.

Clause will use ASC by default.



SELECT fight- home, last some, FROM astored) ascending sodel
ORDER By first-name. ASC; Sight name.

SELECT first-name, lost-name FRom Cotomor

ORDER By first-name Ascy lost-name. DESC;

Ly Erdord by first-names ascording

then bust-names descending order keeping first name
im ascending order.

SELECT first name From Whomen?
ORTER By last-name Sonly in Postgran

other asset. they don't allow above

So, Always go for basic format Expatane one

BETWEEN Statement
against a range of Values,.
Syntax
Value BETWEEN low AMD high;  Value >= low and Value Z = high  > Value NOT BETWEEN low AND wihigh
SELECT Gust-id, amount FROM payment ? amount WHERE amount BETWEEN 8 AND 9; SHI-8-89
NOT BETWEEN - ) Not between & log
SELECT payment date FROM payment WHERE payment date BETWEEN '2007-02-07' AND
12007-02-151



#### IM Statement

-> You can USE the IN operator with WHERE Clause to Check if a value matches any Value in a list of Values.

The Syntax of the IN operator is as follows:

Value IN (Value 1, Value 2, ....)

Subguery)
Value IN (SELECT value FROM table rome)

FROM gental
WHERE Gest-id. IN (1,2)
ORER. BY getwen-date: DESC;

SELECT \* FROM Payment LHERE amount IN (7.99, 8.99);

3-9] LEKE > Syntax SELECT fissf\_name, last\_hame FROM Customes WHERE fisst name, LIKE Tendo? % & - => are Colled wildland character. olo => for mothing any sequence g Coracters. - => For metching any Single Character SELECT fisht-name, last-name.

FROM Customer

WHERE fish-name LIKE '-1-4'; & Endorg '4' LIKE (108916); }=> Between (ex) in the name LIKE Lhours - - any Single Char Not LIKE and of ILIKE => Not Car Sensitive ILIKE 1 Bakolo';