ECAP200 DBMS
CH-3:
B.) White relational algebra Jamuela to find only name of students from  Ambala?  1st Step: - O CITY = "Ambala?" (STUDENT)  2nd Step: - TINAME (OCITY = "Ambala" (STUDENT))  Decome 2nd Method:  1st Step: - TINAME, CITY (STUDENT)
2 nd glep: - OCITY = "AMAMbala" (TTNAME, CITY (STUDENT))  3rd step: - TINAME (OCITY = "Ambala" (TTNAME, CITY (STUDENT)))
# Intro. to SQL:
· A standard language used in most DBMs.  · SQL stands for structured Query Language.  · It keeps involving & growing  · Vendors have the tendency to add "vinique" features.  · Pronounced as "s-q-l" an sequel".  · SQL became a standard of the American National Standards for Standardization (180) in 1986 & of the International Organization
# What SQL cando?
olt can execute quewes against a DB  1) 11 rettleve data from a ,,  1) 19 moent records in a ,,  1) 19 update 19 19 11 9,  1) 19 delete 21 from a ,,
" " " create stored procedures in a DB
"11 11 det permissions on tables, procedures & views.
+ DDL & DML:-
DDL: Data Definition Language define the Schema of the DB DML: Data Maripulation Language provides commands to menipulate the DB
menipulate the DB (query, insent, update, delete)

SQL is based on relational algebra, but not entirely indentical: Relations (> Tables Tuples -> Rows Attribute > Columns > Basic DDL Commands in SQL: DITRUNCATE LRENAME too 1) CREATE: to define new tables (to define relation schemas) ii) DROP: to delete table definitions (to delete relation schemas)
iii) ALTER: to change the ,, of existing tables (to change relation schema) relation schema) > Platforms of this Course :- 1) My SQL - Open Source, Free S/W - Available on Windows & Linux - Casily installed on your own PC. (i) Dracle Live SQL (Online) ) CREATE Table = elled to weate table in RDB CREATE TABLE table name (columns datatype, columns datatype); CREATE TABLE Student (Roll\_no Int, Name varchay (30), Class. varchar, (4)); 11) ALTER Table: Used to add, delete, on modify columns in a existing table. This obtatement is also used to add I duop various constraints on an existing table. · To add column in a table :-ALTER TABLE table - name ADD column\_name datatype; · BRODrop column: ALTER TABLE table-name DROP COLUMN column\_names → Views in a DB: ulutual table based on the nexult set of . In SQL, a view is a an SQL Statement. . A view contains now & columns, just like a neal table. The felds in a view one fields from one or more real tables in DB . Drow can add SQL Jone O WHERE, 2 JOIN statements to a wew I present the Polata as of the data were coming from one wingle table CREATE VIEW Syntax :-CREATE VIEW New name AS SELECT column 1, column 2 ... FROM table - name WHERE conditions

CREATE VIEW [Brazil Customers] AS SELECT CustomerName, Contact FRON Customers WHERE Country = "Brazil";

(19) Cheate a view that obelects every product in the "Products" table with a Price higher than the any price".
CREATE VIEW [Products Above Average Price] AS SELECT Product\_Name, Price FROM Products WHERE Price > (SELECT AVG(Price) FROM Products);

# Sequence :-

In Dracle, we can create an auto number field by using sequences A dequence is an object in Oracle that is used to generate a number sequence. This can be useful when we a need to create a unique number to act as a primary key.

SUNTAX: - CREATE SEQUENCE sequence name START WITH Value

e.g.: CREATE SEQUENCE abc START WITH 100 INCREMENT BY L;
This obtatement can also be dropped & can also be used in various tables

Drop Sequence &-DROP SEQUENCE sequence-name

The data seturned is stored in a result Destable, called result-set.

SELECT expressions FROM Lables [WHERE conditions] [DRDER BY expression [ASC|DESC.];

SELECT columns, column2, ... FROH table-name;

SELECT \* FRON LAble\_name; (Shows all values)