DML: Data Manipulation Lang.

- Select: Retrieve Data

- Insert: To add new rows

(Tuple:)

- Update: To update the
values of existing rows

- delete: To del. rows of a

Table

Select [distinct] (Columns exp) Galumns of output From Clables / Subqueries> Gothe Tables to Select from where < Constraint1 Constraint2 and Group By (Glumns) Having (Group By Conditions) ORder by (Columns) [Direction] Limit [n] offset [m]

(Column exp>:

- The name of a Glumn
and address a Glumn
e.g., The name of the Departments
Select Dept Name, Address
from Department

- To remove duplicate values
of the output: DISTINCT
e.g., The Buildings of the Departments

Select DISTINCT address from Department

- 'x': To Select ALL Warns

eg., To See all information of Departments: Select *

From Department

_ Inject math. Operations

e.g., what the Professor Salaries would be after a 10% raise

Select Name, 1.1 * Salary
From Professoz

- Aggregation Operations Later

- Rename the Columns (Alias): AS e.g., Select Distinct Address AS Building from Department From (Tables) where (and Hours >

_e.g., The Protessors with Salary at least \$5000

Select x from Professor where Salory >= 5000

- e.g., The Professors of the 'CS' Department

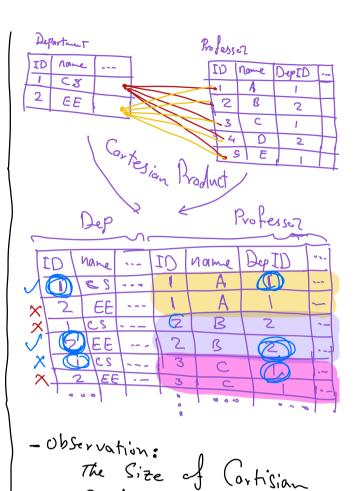
Select Professor. Name

from Department, Professor

Where Department. 10 = DepID Department. Name = 'CS'

output





Product is nxm

Select P. name, P. Id

From Conre, Conre ASP

Where

Course. Pre Reg ID = P. L

Course. Name = 'DB'

Example From the book: The name of Courses Student A' took in Fall 2025. Select Course. Title from Student, Takes, Section, Course - Chain of Tables where Takes. ID = Student. ID The Foreign key Constraints Takes. Sec_ID = Section. Sec_ID and Section. Conrse_ID = Conrse_ID Student. name = A' - Additions and Section. Semester = Fall' Const raints Section. Year = 2025