

Apply basic designing methodologies

Aim ÷ To demonstrate how data is accessed, initialized, and manipulated within a relational database using SQL queries and logical steps.

Algorithm ÷

1. Access Phase

- connect to the database
- Identify the target table

USE collegeDB;

SELECT * FROM students;

2. Initialization Phase:

- setup the environment or temporary structures
- Define conditions, projections, joins, etc

SELECT Name, Age FROM students WHERE
Grade = 'A';

3. Manipulation Phase:

- Perform updates, insertions, deletions, or computed queries

UPDATE students SET Grade = 'A+' WHERE
Name = 'Alice';

INSERT INTO students (ID, Name, Age,
Grade)

VALUES (4, 'David', 23, 'B');

DELETE FROM students WHERE ID = 2;

Input: Recover

Table: students

ID	Name	Age	Grade
1	Alice	20	A
2	Bob	22	B
3	Charlie	21	A

Output Examples:

Ex ÷ 1

Returns all rows from students table

Ex ÷ 2

Updates Alice's grade to A+ and removes Bob from the table.

Pseudo code

BEGIN

CONNECT TO College DB;

-- ACCESS

SELECT * FROM Students;

-- INITIALIZATION

SET Resultset = SELECT Name, Age FROM
Students WHERE Grade = 'A';

-- MANIPULATION

UPDATE Students SET Grade = 'A+' WHERE
Name = 'Alice';

INSERT INTO Students VALUES (4, 'David', 23, 'A');
DELETE FROM Students WHERE ID = 2;

END;

VEL TECH - CSE	
EX NO.	13
PERFORMANCE (5)	5
RESULT AND ANALYSIS (3)	5
VIVA VOCE (3)	5
RECORD (4)	
TOTAL (15)	15
DATE	

RESULT: Thus the task completed
successfully.