

Use Case:-

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

USC College D:

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';

Input
Task: Students

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

Implementation projects start plan

output graphs:

Ex:-1

Return all rows from students
table.

Ex:-2

Update Alice's grade to A+ and remove
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 =

— Manipulation

Update Students SET Grade =

'A+' where Name = 'Alice';

INSERT INTO Students VALUES ('4', 'David', '21',
'B');

DELETE FROM Students WHERE ID = 2;

END;

| SQL TECH - C | |
|-------------------------|------------|
| EX NO. | 13 |
| PERFORMANCE (5) | 5 |
| RESULT AND ANALYSIS (3) | 5 |
| VIVA VOCE (3) | 5 |
| RECORD (4) | |
| TOTAL (15) | 15 |
| DATE WITH DATE | 28/08/2018 |

Result

The task completed successfully