

11/11/23

TASK (3.1)

IN QUERIES

USING CLAUSES, OPERATORS AND FUNCTIONS

Aim:- To Implement of DML Commands using clauses, operators and functions in queries.

CLAUSES:-

→ WHERE, ORDER BY, GROUP BY, HAVING, DISTINCT

OPERATORS:-

- Equal ($=$)
- BETWEEN
- AND
- OR
- IN

CREATE TABLE DEPARTMENT
DEPT_ID INT PRIMARY KEY,
DEPTNAME VARCHAR(50) UNIQUE NOT NULL,
LOCATION VARCHAR(50) NOT NULL;

CREATE TABLE STUDENT

STUDENT_ID INT PRIMARY KEY,
NAME VARCHAR(50) NOT NULL,
AGE INT CHECK (AGE >= 18),
DEPT_ID INT FOREIGN KEY REFERENCES
DEPARTMENT (DEPT_ID)

CITY VARCHAR(50) DEFAULT 'Unknown',
JOIN_DATE DATE TIME DEFAULT GET
DATE();

INSERT INTO - DEPARTMENT VALUES

(1, 'CSE', 'HYDERABAD'),
(2, 'EEE', 'MUMBAI'),
(3, 'MECH', 'DELHI');

INSERT INTO STUDENT VALUES

(101, 'RAHUL', 20, 1, 'HYDERABAD');

INSERT INTO STUDENT VALUES,

(102, 'ANJALI', 22, 2, 'MUMBAI');

INSERT INTO STUDENT VALUES,

(103, 'KIRAN', 19, 1, 'PUNE');

INSERT INTO STUDENT VALUES,

(104, 'MULTHI', 23, 3, 'DELHI');

INSERT INTO STUDENT VALUES,

(105, 'SARA LCHAN', 21, 1, 'HYDERABAD');

SELECT * from STUDENT;

SNO	STUDENT ID	NAME	AGE	DEPTID	CITY	JOIN DATE
1	101	RAHUL	20	1	HYDERABAD	2025-08-26
2	102	ANJALI	22	2	MUMBAI	2025-08-26
3	103	KIRAN	19	1	PUNE	2025-08-26
4	104	MULTHI	23	3	DELHI	2025-08-26
5	105	SARALNAL	21	1	HYDERABAD	2025-08-26

SELECT * from DEPARTMENT;

SNO	DEPT ID	DEPT NAME	LOCATION
1.	1	CSE	HYD
2	2	EEE	MUMBAI
3.	3	MECH	DELHI

SELECT NAME, AGE
 FROM STUDENT
 WHERE AGE BETWEEN 19 AND 21;

SNO	NAME	AGE
1	RAHUL	20
2	ANJALI	21
3	KIRAN	19
4	SARAKHAN	21

SELECT NAME, DEPT ID
 FROM STUDENT
 WHERE DEPT ID IN(1,3)
 ORDER BY DEPT ID DESC;

S.NO	NAME	DEPT ID
1.	MO HITH	3
2.	SARAKHAN	1
3.	RAHUL	1
4.	Karan	1

Update student 1

SET AGE = AGE + 1

WHERE DEPT ID = 1, AND AGE >= 21;

S.NO	student ID	NAME	AGE	Dept ID	CITY	JOIN DATE
1	101	Rahul	21	1	Hyderabad	2025-8-26 -6ad.
2	102	Anjali	22	2	Mumbai	2025-8-26
3	103	KIRAN	20	1	Pune	2025-8-26
4	104	Mohit	23	3	Delhi	2025-8-26
5	105	SARVESH	21	1	Hyderabad	2025-8-26, 6ad.

SELECT DISTINCT CITY
FROM student

S.NO	CITY
1.	Delhi
2.	Hyderabad
3.	Mumbai
4.	PUNE

SELECT DEPT ID, count(*) AS Total - student
From STUDENT
GROUP BY DEPT ID;

S.NO	DEPT ID	Total - students
1	1	3
2	2	1
3	3	1

UPDATE STUDENT

SET AGE = AGE + 1

WHERE DEPT_ID = 1 AND AGE <= 21;

SNO	STUDENT ID	NAME	AGE	DEPT ID	CITY	JOIN DATE
1	01	RAHUL	21	1	UNDERGRADUATE	2015-8-16
2	02	ANJALI	22	2	MUMBAI	2015-8-26
3	03	KIRAN	20	1	PUNE	2015-8-8
4	04	MOHITH	23	3	DELHI	2015-8-6
5	05	SARAKAL	21	1	UNDERGRADUATE	2015-8-6

✓

VEL TECH - CSE	
EX NO:	31
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	4
RECORD (5)	14
TOTAL (20)	0
SIGN WITH DATE	1818

✓
1818

Result:- The implementation of the clauses, operators
 & functions in the querue (SQL and DML commands)
 all exlacted successfully.