EXPERIMENT - 8

Title: Use of different SQL clauses and join

Objective: To understand the use of group by and having clause and execute the SQL commands using JOIN



```
SELECT Match.mname
FROM Match
JOIN Play ON Match.mid = Play.mid
JOIN Student ON Student.sid = Play.sid
WHERE Student.sname = 'Amit';

Output

mname
Matchl
Match2
Match4
```





```
SELECT Student.sid, Student.sname
FROM Student
JOIN Play ON Student.sid = Play.sid
GROUP BY Student.sid, Student.sname, Play.day
HAVING COUNT(DISTINCT Play.mid) >= 2;

Output

sid sname

1 Amit
```

```
SELECT DISTINCT Student.sid
FROM Student
JOIN Play ON Student.sid = Play.sid
JOIN Match ON Match.mid = Play.nid
WHERE Match.venue IN ('Delhi', 'Mumbai');

Output

sid
1
2
```

```
SELECT AVG(age) AS average_age
FROM Student;

Output

average_age
21.5
```

EXPERIMENT - 9

Title: To understand the concepts of Views.

Objective: Students will be able to implement the concept of views.

Create the EMPLOYEES table CREATE TABLE EMPLOYEES (Employee_id CHAR(18) PRIMARY KEY, First_Mame CHAR(38) NOT NULL, Last_Name CHAR(38) NOT NULL, Dob DATE, Salary NuMBER(25) NOT NULL, Department_id CHAR(18)); Insert 6 rows into the EMPLOYEES table INSERT INTO EMPLOYEES (Employee_id, First_Name, Last_Name, DOB, Salary, Department_id) VALUES ('Eeel', 'John', 'Doe', '1986-66-15', 60000, 'Doel'), ('Eeel', 'Jane', 'Smith', '1990-04-10', 75800, 'Doel'), ('Ee03', 'Michael', 'Brown', '1988-09-25', 50000, 'Doel'), ('Ee04', 'Emily', 'Davis', '1992-11-01', 80000, 'Doel'), ('Ee06', 'Anna', 'Taylor', '1995-02-14', 70000, 'Doel'), ('E006', 'Anna', 'Taylor', '1995-02-14', 70000, 'Doel')	EMPLOYEES	EMPLOYEES					
	Employee_id	First_Name	Last_Name	DOB	Salary	Department_id	
	E001	John	Doe	1985- 06-15	60000	D001	
	E002	Jane	Smith	1990- 04- 10	75000	D002	
	E003	Michael	Brown	1988- 09- 25	50000	D001	
	E004	Emily	Davis	1992- 11-01	80000	D003	
	E005	Chris	Wilson	1987- 05- 20	55000	D002	
	E006	Anna	Taylor	1995- 02- 14	70000	D003	
SQL query successfully executed. However, the result set is empty.					_	•	

1

```
CREATE VIEW emp_view AS
SELECT Employee_id, Last_Name, Salary, Department_id
FROM EMPLOYEES;

Output

SQL query successfully executed. However, the result set is empty.
```

```
INSERT INTO emp_view (Employee_id, Last_Name, Salary, Department_id)
VALUES ('E007', 'Clark', 62000, 'D001');

Output

Error: cannot modify emp_view because it is a view
```

```
UPDATE emp_view
SET Salary = 68000
WHERE Employee_id = 'E001';

-- Delete a record through the view
DELETE FROM emp_view
WHERE Employee_id = 'E005';

-- Drop the view
DROP VIEW emp_view;

Output

Error: cannot modify emp_view because it is a view
```

```
-- Create a view named salary_view that shows the employees in department 'D002' with their annual salary CREATE VIEW salary_view AS

SELECT Employee_id, First_Name, Last_Name, Salary * 12 AS Annual_Salary

FROM EMPLOYEES

WHERE Department_id = 'D002';
```