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EXPERIMENT - 2

AIM: Implementation of DDL and DML commands in SPL.

THEORY:

DDL Stands for Data Definition Language. DM DML Stands for Data Manipulation Language. These two categories of commands are used to create, modify and manipulate the structure and data of relational databases.

> DDL commands used here are:

expare: It is used to create new table in the

Syntax: CREATE TABLE table name (
column 2 dotatype,
Column 3 dotatype,

);

The column parameters specify the names of the columns of the table.

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The datatype parameter specifies the type of data the column can hold (e.g. varchar, integer, date, etc.).

Example:

CREATE TABLE Employee (Name vorchar(20), Email vorchar2(100))

2) DROP: It is used to delete both the structure and record stared in the table.

Syntax: DROP TABLE table name;

Frangle: DROP TABLE Employee;

> DML commands used here are:

DELETE: DELETE FROM is a DML command that is used to delete one or more rows from a table.

The syntax is as follows:

DELETE FROM toble- Name
WHERE condition;

EXAMPLE: DELETE FROM Employee -HMERE Name = "Avun";

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2) INSERT: The INSERT statement is a SPL query.

9t is used to insert data into the YON

d a table.

Syntax: INSERT INTO TABLE NAME

(col 1, col 2, col 3 col N)

VALUES (value 1, value 2, value 3 ... value N);

Example:

THISERT THTO Employee VALUES ("Arun", "Aurangobad");

3) VPDATE: This command is used to update or modify the value of a Glunn in the table.

Syntax: UPDATE table name

SET column = Value 1, Glumn 2 = Value 2,...

NHERE condition;

Example: UPDATE Employee.

SET City = 'Nagpur'

WHERE Name = 'AYUN';

The EXTSTS keyword is used to test for the existance of a subquery in whally a select statement that returns a set of rows and the exists beyword is used to check if any rows are returned by the subguery.

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c . Cura-		
Syntax of EXIST!	(0)	
SELECT Column so		
FROM table- ran		
WHERE EXISTS	(horatrail)	
It is usually used with the NOT	Kyword , For example:	
SEIGHT * COM Front		
SELECT * FROM Employee		
HHERE NOT EXJSTS (R. B. B. B. C. B.	
SELECT * FROM Company WHERE pagentate Company City = city);		
- This query returns all the	the sti companies	
that do not have any associal	ted city	
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> PUERTES: (to create initial tobles)

DROP TABLE IF EXISTS Employee; CREATE TABLE Employee (ename varchar(10), city varchar(10)); INSERT INTO Employee VALUES ("Suril", "Madras"), ("Vijay", "Madras"); SELECT FROM Fraplayer;

DROP TABLE IF EXILITS Emp-Company; CREATE TABLE Emp-Tompony (evane Varcharle), crame varcharle), Salory number (7,2), jdate date); TALLERT INTO From Company VALVES ('SUNIT', 'ACC', 50000, '01-SEP-2017'), ('Vijay', 'Acc', 40000, '01-5EP-2027), ('Amar', Microsoft', 60000, '01-SFP-2017'), ('Athania', 'Google', 60000, '01-SFP-2027); SELECT FR. * FROM Emp- Company;

DROP TABLE IF EXISTS Company;

CREATE TABLE Company (Chame varchardo), city varchard(0);

INSERT INTO Company VALUES ('Acc', 'Madrey'), ('TATA', Bergaluru'), ('Microsoft', 'Pune'), ('Google', Bengalura'); SELECT * FRom Company;

DROP TABLE IF EXISTS Monager; CREATE TABLE Monager (ename varcharl(10), manne varcharl(10)); INSERT INTO Manager VALUES ('Sunil', Sharran'), (Vijay', 'Sunil'), 'Amar', Mahi'), ('Athara', 'Rucha'); SELECT * FROM Monager;

DROP TABLE IF EXISTS Emp_Shift; CREATE TABLE Emp-Shift (ename varchar2(10), shift varchar2(10)),

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	TNSERT INTO Emp-Shift VALUES ('Junil', 'A'), ('Vijay', 'A'), ('Amor', 'B'), ('Atharva', 'C');
	('Amor', 'B'), ('Atharva', 'C');
	SELECT * FROM Emp-Shift;
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DATABASES:

Employee

ename	city	
Sunil	Madras	
Vijay	Madras	
Amar	Pune	
Atharva	Bengaluru	

Company

cname	city
ACC	Madras
TATA	Bengaluru
Microsoft	Pune
Google	Bengaluru

Emp_Company

ename	cname	salary	jdate
Sunil	ACC	5000	01-SEP-2027
Vijay	ACC	40000	01-SEP-2027
Amar	Microsoft	6000	01-SEP-2027
Atharva	Google	60000	01-SEP-2027

Manager

ename	mname	
Sunil	Sharvari	
Vijay	Sunil	
Amar	Mahi	
Atharva	Rucha	

Emp_Shift

ename	shift
Sunil	А
Vijay	А
Amar	В
Atharva	С

QUERIES:

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- 1) Decrease the salary of Vijay by 100 if Sunil and Vijay are living in city Madras.
- → Before running the query :

ename	cname	salary	jdate
Sunil	ACC	5000	01-SEP-2027
Vijay	ACC	40000	01-SEP-2027
Amar	Microsoft	6000	01-SEP-2027
Atharva	Google	60000	01-SEP-2027

After running the following query:

```
UPDATE Emp_Company
SET salary = salary - 100
WHERE ename = 'Vijay' and
EXISTS(SELECT ename FROM Employee
WHERE ename = 'Vijay' AND city = 'Madras' AND city IN
(SELECT city FROM Employee
WHERE ename = 'Sunil'));
SELECT * FROM Emp_Company;
```

salary jdate ename cname Sunil ACC 5000 01-SEP-2027 Vijay ACC 39900 01-SEP-2027 Microsoft Amar 6000 01-SEP-2027 Google Atharva 60000 01-SEP-2027

2) All employees of 'ACC' having salary greater than 8000 are shifted to 'TATA'.

→ Before running the query :

ename	cname	salary	jdate
Sunil	ACC	5000	01-SEP-2027
Vijay	ACC	39900	01-SEP-2027
Amar	Microsoft	6000	01-SEP-2027
Atharva	Google	60000	01-SEP-2027

After running the following query:

```
UPDATE Emp_Company
SET cname = 'TATA'
WHERE salary > 8000 and cname = 'ACC';
SELECT * FROM Emp_Company;
```

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salary jdate ename cname Sunil ACC 5000 01-SEP-2027 Vijay 39900 TATA 01-SEP-2027 Microsoft 6000 01-SEP-2027 Amar Google Atharva 60000 01-SEP-2027

3)Decrease the salary of employee Vijay By 100 and increase the salary of employee Sunil by 100.

→ Before running the query :

ename	cname	salary	jdate
Sunil	ACC	5000	01-SEP-2027
Vijay	TATA	39900	01-SEP-2027
Amar	Microsoft	6000	01-SEP-2027
Atharva	Google	60000	01-SEP-2027

After running the following query:

```
UPDATE Emp_Company
SET salary = salary - 100
WHERE ename = 'Vijay';
UPDATE Emp_Company
SET salary = salary + 100
WHERE ename = 'Sunil';
SELECT * FROM Emp_Company;
```

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ename	cname	salary	jdate
Sunil	ACC	5100	01-SEP-2027
Vijay	TATA	39800	01-SEP-2027
Amar	Microsoft	6000	01-SEP-2027
Atharva	Google	60000	01-SEP-2027

- 4) Delete the rows of Emp_Company having salary Greater than 8000.
- → Before running the query :

ename	cname	salary	jdate
Sunil	ACC	5100	01-SEP-2027
Vijay	TATA	39800	01-SEP-2027
Amar	Microsoft	6000	01-SEP-2027
Atharva	Google	60000	01-SEP-2027

After running the following query :

```
DELETE FROM Emp_Company
WHERE salary > 8000;
SELECT * FROM Emp_Company;
```

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ename	cname	salary	jdate
Sunil	ACC	5100	01-SEP-2027
Amar	Microsoft	6000	01-SEP-2027

CONCLUSION: DDL and DML Commands in SQL are being understood and implemented.