EXPERIMENT - 1

ATM: Study of various DDL, DML and DCL commands in SQL.

THEORY: The database is a collection of inter-related data which is used to retrieve, insert and delete the data efficiently. It is also used to organize the data in the form of a table, schemes, reports, etc.

Database management system (DBMs) is a software which is used to manage the database. It provides protection and security to the database. In the case of multiple users, it also mantains data consistency.

A query in DBMs is used to retrieve or modify data stored in the database. It is like a question or a request for any operation on a particular data object

(Spi) commands Structured Puery language is used for storing and Managing data in Relational database management system (RDBMs). It is a standard language for Relational database system. It enables a user to create trad, update and delete relational databases and father

DIAGRAM: 59L Command DML DDL DCL TCL DIL Create _ Commit Insert Grant -Select Update Drop Revoke Rollback Alter Delete Savepoint Truncate

Spe commands are instructions. It is used communicate with the database. It is also used to perform specific tasts, functions, and queries of data.

Joe can perform various tasts like create, drop or reality table, and data to tables, set permission for wear, etc.

There are fire types of SPL commands: DDL, DML, DCL, TCL and DOL

Data Definition longuage (DDL):

DDL changes the structure of the table like creating deleting altering a table are auto - committed that means it permanently save all the changes in the database.

Commando that conta come under DDL:

a) CREATE: 9t is used to create a new table in the

Syntax: CREATE TABLE table-name (COLUMNI-NAME DATATYPES [...]);

Example: CREATE TABLE FORPLOYFE (Name VARCHAR (20), Frail VARCHAR 2 (100), POB DATE);

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

Syntax: DROP TRBCE table-rome;

Example: DROP TABLE EMPLOYEE;

either to modify the characteristics of an existing attribute probably to add a new attribute

To add a new column in the table Syntax: ALTER TABLE table name ADD column name Column definition;

To modify existing column in the table

Syntax: ALTER TABLE table name

MoDIFy (column definations ...);

Example: ALTER TABLE STU- BETAILS ADD (ADDRESS VARCHAR (20));

ALTER TABLE STU-DETAILS MODIFY (NAME VARYIAR (20));

d) TRUNCATE: It is used to delete all the rows from the table and free the space containing the table.

Syntax: TRUNIATE TABLE toble-name;

2) Data Monipulation Language (DML):

Done Commands are used to modify the database. It is responsible for all form of though in the database The command of Done is not auto-committed that means it can't permanently some all the changes in the database. They can be rollback.

Commands that come under DML!

a) INSERT: It is used to insert data into row of a toble.

> Syntax: INSFRT INTO table none (col1, col2, col3...colN) VAUES (value 1, value 2, value 3... value N).

6) UPDATE: 9t is used to update or modify the value of a column in the table.

Syntax: UPDATE toble-name SET (column_name)=

valus, ... column-name N= value N)

EMPERE CONDITION]

DELETE: 9t is used to remove an or

Syntax : DELETE FROM table-Name (WHERE CONDITION).

| 3) | Data | control | Longuage (DCL): | |
|----|------|---------|-----------------|--|
| | | | | |

Der commands are used to grant and take back authority from any database user.

Commands that come under DCL:

a) GRANT: 9t is used to give user access
privileges to a dotabuse.

SYNTAX: GRANT SELECT, UPDATE ON MY TABLE
TO SOME - WER, ANOTHER, WER;

b) REVOKE: 9t is used to take back promissions from the user.

SYNTAX: REVOKE SELECT, UPDATE ON MY_TABLE
FROM USER 2;

Concession: Germands of DDL, DML and DCL in SPL has been Studied.