SOL DATA LONTROL LAHVAME LOMMANDS AND TRANSACTION LONTROL COMMANDS TO THE SAMPLE EXERCISES

AIH: To bust Database to purform PATA LONTROL LANGUAGE and Transaction Control Commands.

Transaction Control Statements

Transaction Control Language (Tci) Commands are used to manage transactions in the database.

Enamples of Tci:

- (1) Commit
- (A) Roll back.
- (111) Save Point.
-) bommit : bommit bommand saves all the work done Syntan: bommit;
- Pollback: Follback lommand restores database to original since the last lommit Syntan: - ROLLBACK TO SAVEPOINT (savepoint name?)
 - Savepoint:
 Synkin: SAVEPOINT Lawepoint_hame 7;

RESULT : Hence, the above transaction bontrol bommands has been un plemented successfully. AIM :-

To write a program on Enbirt functions un SQL

SYNTAX :

MIN(): Peterns the smallest value of the selected Column.

Syntan: SELECT MIN (Lolumn_name).

MAX(): leturns the largest value of the selected bolumn.

Syntan: SELECT HAX Wolumn name)

COUNT (): Returns the number of lows that marthes a upuified

Syntan: SELECT LOUNT (Column name).

AVG[): leturns the average Value of a rumous Column.

Syntan: SELE IT AVY (blumn_name)

SUM 1): Returns the total sum of a numeric blumm.

Syntan: SELECT SUM (Whum name).

RESULT :

Hence the above Sel Enbuit Overies are wind lumented hucessfully.

BRHODEL FOR THE APPLICATION TO BE LONGTAVITED TO A DATABASE

AIH: To construct a Ex model for the Application to be constructed to a patabase.

STERS FOR PRAWING EX DIAGRAM:

- 1. Forst, identify the entities in your database. En this lase, we have three entities
- 2. The swond step win volves eidentifying the relationship between the sched entities
- 3. The thered sty involves identifying Cardinalities
- Entity: Entitus are represented by rectangle. All table of detabase are treating as entity.
- 5. Attributes: Attributes are represented by ellepses. Attributes are Propurtus of entities.



AESUA: Here we have successfully drawn the FR Diagram. AIM: To implement nested queries commands on sample energie.

HESTED Query (Sub Dury):

Sub query can have more than one level of nesting inone single Query.

Syntan for nested Query >

"Column - name 2" [comparison operator]

(select "bolumn_ name 2" from "Table-name 2" where bondition)

Sel > Select < bolumn - nam > frome < fable - 1 7 where & bolumn - name > (Valuetional - Operation > 'Values' (Select (aggregate frunction)) from < fable - 1 > where < bolumn name > = "Value" (Select & bolumn - name > from < label - 2 > where < bolumn - name > = "Value");

EXPERIMENT - T. JOIN OPERATORS

AIM: To know the use of join operator in SQL.

JOIN :

A join is used to combine vious from multiple A jour is performed when ever two or more tables is listed in the form clause of an Sal Commands.

TABLE STRUCTURE

Syntan: SQL 7 desc supplies; SQL > desc order; SQL > select * from suppliers;

1) Natural Joins:

Syntan: SQL > select & from supplier, ord where supplier.

supid = ord. supid;

2) Outer join:

- deft outer join

Syntan: Select supplier. supid, supplier. Supplier. Supplier. Ord. odet e where supplier. Supid (+) = Ord. Supid

-> right outer join

Syntan'= SQL > supplies. supid, supplier. suprame, ord. odate from supplies. ord where supplies. supid = ord. supid | 1) supid (+) = ord. supid (+)

EXPERIMENT 8 JET OPERATORS AND VIEWS

To unplement set operators and views using sel

-> set operators:

Combune the viesult of 2 annuis operator covered under SET

Statements. Duplicate Nows will be eliminated from the Mesults Obtained after performing the union operation.

Select * from (table_name) union reclut * from (table rom

2) lunion All:

Syntan: Select * from (table_hame) winon All select * from (table_hamez)

3) Entased:

Syntan: Select & from (table_name) untersed select & from (table name 2);

4) Minus (Encyt):

Syntan: Select * from (table name 1) numes soled * from (table -hame 2)

Heus :

1) bush view:

Syntan: Create view (view name) as selvet (blumn), column?...) from [table name) where [condition]

2) Ensert

Syntan: Ensert vinto (table name) Values (values), Value 3,

update:

syntan: update (table name) set (column 1 = value, column?

= value 2, ---) where condition;

5) OROP:

syntan: prop view (view_ name);