```
TASK: 2.1
   DATE 4/8/25
   TASK: 2 Grenerating design of other
   Tranditional database model
   AIM: To Implemente of DD1 and DML
   commands of 801 with suitable example
  DDL :
    · Create table
    · Alter table
    · Drop table
    · Truncate
 DML :
  · INSERT
     · UPDATE
     · DELETE
     · SELECT
5QL (stradured Query Language):
       SQL is the standard language
used to interad with nelational
database. It allows aren to create,
modify, query, and manage data
```

efficiently.

There are five type of sq1 statement They are: · Data Definition Language (DDL) · Data Retrieval Language (DRL) · Data Manulipulation - Language (DML) · Transational control language (TCL) · Data Control language (DCI) 1. Data Définition language (DDL): The Data definition Language CDDL is used to create and destions database and database objects. These commands will primarily be used by database administrators during the setup and removel phase of a database project. Let's take a look the structure and useage of four DDI commands

```
· DDL Commands (DDL)
   Definition: DD1 commands core used to
  define, modify & delete The structure of
  database objects such as table
        -Used to create new table in The
  I. (REATE TABLE
  database
 SQL:
  CREATE TABLE Dealer (
    Dealer_ID INT,
   Dealer-Name VARLHARLEO),
             VARCHAR (50),
    Loation /
     phone INT
  );
 CREATE TABLE Carl
 CARID INT,
 model VARIHAR (30),
 car name VARLABR (50),
        IKIT,
 year
           INIT
  price
 );
OUTPUT :
  Table dealer and car created
              success fully
```

Name

Type

Dealer-ID

Dealer-name

Varchar(50)

Location

Phone

Type

TNT

Varchar(50)

INT

to a Marianan V

INT SHOT

YD) BISAT

1 44111847

J-SGHIGH V

2. Describe DESC structure of a Display The and data type) table (cloumn names SQL: DESC deater; - Delete The entrie table 3. DROP structure and all its data DROP TABLE dealer; SQL: Table dealer dropped successfully output: 4. ALTER TABLE to add. clelete or - used an existing table modify columns in SQL: colour H ALTER TABLE car ADD VArchar (50); output: added to car column colour

output:

Car-ID	model	car-Brand	year	prile
[00D	911	PORSCHE	1963	3.51cr
1001	M 8	BMW	2019	2.4407
1010	ghost	RollsRoyce	2010-2020	J. 95CY

```
W. DML Commands ( Data maipulation
Language)
Definition: DML command are used
to manage and manipulate data
inside database Lables
I INSERT INTO:
 - Insert new crows into a
table
sqL:
INSERT INTO Par (car-ID, model,
car-Brand, year, price)
VALUES 6000,911, PORSCHE, 1963, 3.51, PCr)
INSERT INTO Car ( car-ID, model,
Bar-Brand, year, price)
VALUES (1001, M8, BMW, 2019, 2.44 (r)
INSER INTO Car (car-ID, model,
car-Brand, year, price)
 VALUES (1010, ghost, RollsRoyce,2010,7.950
2. SELECT
         Relieves data from one or
more tables.
SQL !
    SELECT * FROM car;
```

output;

(ar-ID	model	car-Brand	year	price
1000	911	posche	1963	3-2161
1001	M8	BMW	2019	4.00
1010	ghost	Roll Royce	2010-2020	7.9.5(7

output;

Car-ID	model	car_Brand	year	price
1001	M8	ВМИ	2019	4-64
1010.	ghost	Roll Royle	2000-2020	7.95CY

output:

Car_ID	model	car_Brand	year	price
1010	ghost	RollRoyle	2010-2020	7.951r.

```
3. UPDATE
           - Modities existing data in a
     table
    SQL:
      UPDATE COY SET Price = 4 CY WHERE
     Pitte Ear_brand = BMW;
     OUTPUT :
          I row updated
    SQL:
     SELECT * FROM car;
   4 DELETE :
        - Delete one or more rows
   of a table
  SQL:
    DELETE FROM CAY WHERE CAY-ID=
  1000 ;
 OUT DUT :
     1 Row deleted
 SOL: SELECT & FROM Car;
5. SELECT with WHERE clause
          - Retrieves Specific records
that Satisfy The condition
SQL:
   SELECT * FROM car WHERE Car-model
                              = ghost;
```

Command type	command	Dispription
DDT	CREATE	Create
DDL	DESC	show table structure.
DDL	DROP	polete table
DDL	ALTER	modity table structure
DML	INSERT	Acld Records to table
DML	SELECT	Retrieve
DML	OPDATE	modifies existics records
DMI	DELETE	Remove records

x No.	2
PERFORMANCE (5)	5,
RESULT AND ANALYSIS (1)	2
VIVA VOCE (b)	4
RECO20 (5)	1
TOTAL (10)	14
NIGA WITH DATE	
	(m) /
	10/2/05

Result: The task to create, delete, alter the table and BML command was executed successfully.

```
TASK: 2.2 Generating design of other
Tranditional database model
```

aim to implement The DDL and BML commands with contraints

DDL commands:

CREATE, AITER, DROP, TRUNCATE, REN

BML commands:

INGERT , UPDATE, DELETE, SELECT

contraints:

Primary key

Foreign key

NOT NULL

UNIQUE

CHECK

DEFAULT

CREATE !

(REATE TABLE Books (

BOOK ID INT PRIMARY KEY,

Title VAR(HAR (150) NOT NULL)

AUTHOR VARIHAR (8,2) NOT NOLL,

Prile DECIMAL (8,2) CHECK (price >0)

prublished year INIT DEFALT 2020,

ISBN VARIHAR (20) UNIQUE

2;

CREATE TABLE Membern (
member-ID INIT PRIMARY KEY,
member Name VARCHAR (100) NOT NULL,
Jointale DATE DEFAULT CURRENTDATE,
Email. VARCHAR (100) UNIQUE

OUTPUT: TABLE (realed (REATE TABLE Barrow(

Barrow-ID INT PRIMARY KEY,
BOOK-ID INT NOT NULL,
Member ID INT NOT NULL;

BOTTOW Dale DATE DEFAULT CURRENT DATE,
Refurbate DATE,

FORFIGN KEY (BOOKID) REFENCES

BOOKS (BOOKID),

FORFING KEY (BlemberID) REFENCES

member (member ID)

OUTPUT PABLE (reacted)
1.2 ALTER TABLE

ALTER TABLE BOOKS ADD Publisher VAR(HAR(100))

ALTER TABLE Books MODIFY price

DECIMAL (10.2);

OUTPUT

Table Altered

Booksta	ble		price	publisher year
BOOK ID	Litle	AUTHOR	1	20/8
Mary Andrews	T Alchemist	paul cocho	350	

Library Members table

n	nember_ ID	HIE-mober Name	Joindale	email
	101	An anya sharma	2025-08-01	ananya agmail.
	100	In rounger gracians		com

Barrow Table.

Borrow IP	Book_IP	membe_ID	Bower ow Date	Return Dale
1001	1	101	2025-08-10	NULL

1.3 TRUNIATE TABLE

TRUNCATE TABLE BOTTOW;

OUTPUT TABLE Trancated

14 RENAME TABLE

RENAME TABLE Member To Library

member;

OUTPUT TABLE Transated.

DML commands for Library

Management system:

2.1 INSERT Data:

SQL:

INSERT INTO BOOKS (Book ID, Title,

Author, Price, published year, ISBN)

VALUE (101, 'Ananya sharma; 12025-08-01)

'aranya@gmail.com');

INSERT INTO Library nembers (

member ID, Member Name, joindule, email)

VALUE (19 The Archemist', paula coelho', 350-00,

2018, 1978006122415');

INSERT INTO BOYYOW (BOYYOWID,

Book ID, member\_ID, BorrowPATE,

Returndale)

VALUE (1001, 1, 101, 2025-08-10, HULL);

output.

I row updated successfully.

Books table After update:

BOOKID	TITLE	AUTHOR	PRICE	IENB	Public
1	The A lchemist	Paulo Chaho	400	978019 22415	MULL

```
2.2 UPDATE DATE
   30 L.
     UPDATE Books
      SET Price = 400.00 published year = 2022
      WHERE BOOK ID = 1;
  2.3 DELETE Data
  SQL :
   DELETE FROM BOYTOW WHERE BOYYOW
   I.D = 1001;
   1 row deleted from Borrow table
  OUTPUT:
     Borrow table after Delete;
            No your :
 2.4 SELECT With Join:
  SQL:
    SELECT books Title, books Author, I. Member
hame br. Borrow Date - FROM Bonnow.
    JOIN BOOKS ON DY-BOOK ID = b. HOOK ID
           Library Member IDN br. Member IP =
    TOIN
                     1. Member ID;
OUT PUT :
              nows returned as Borrow
       No
table as empty
```

VELTECH

EX No.

PERFORMANCE (S)

RESULT AND ANALYSIS (S)

VIVA VOCE (S)

RECORD (S)

TOTAL (18)

SIGNIWITH DATE

48

RESEIT: All commands are exculed:

The DDL and DML in sQL are successfully