

~~5/8/25~~ Generating Design of other tradition  
5/8/25 Task-2 database model

Aim: To generate design of other traditional database model and implement DDL commands of SQL with samples.

### DATA DEFINITION LANGUAGE (DDL):

Definition: DDL commands are used to define, modify or delete the database objects such as tables.

DDL Queries:

SQL

```
CREATE TABLE Customer(  
    CUST-ID INT PRIMARY KEY,  
    CUST-Name VARCHAR(100),  
    Phone-No VARCHAR(20),  
    City VARCHAR(50),  
    Amount-Paid DECIMAL(10,2)  
);
```

Output: Table created successfully.

### 2. DESCRIBE (or) DESC:

Definition: Displays the structure of a table (column names and data types)

Query:

Sql

```
DESC Customer;
```

OUTPUT:

Cust-ID	int
Cust-Name	varchar(100)
Phone-No	varchar(20)
City	varchar(50)
Amount-Paid	decimal(10,2)

3. DROP Table:

Query:

```
DROP TABLE customer;
```

Output

Table dropped successfully.

4. ALTER TABLE: (Adds fields in a table)

Query

```
ALTER TABLE customer  
ADD COLUMN Email VARCHAR(100);
```

Output:

"Commands completed successfully."

II DM2 Queries:

Insert

Query:

```
Sql INSERT INTO customer(Cust-ID,Cust-Name,  
Phone-No,City,Amount-Paid)VALUES 1  
(John Doe,'123-456-7890') New York,  
100.00);
```

Output:

1 row inserted to customer

\* SELECT: (Retrieves data from one or more tables)

Query

SQL

SELECT \* FROM customer;

Output:

Cust-ID	Cust_Name	Phone-No	City	Amount_Paid
1	John Doe	123-456-7890	New York	100.00
2	Smith	987-654-321	Chicago	200.00
3	Krish	555-123-4567	America	50.00

\* UPDATE

Query

SQL

UPDATE customer

SET Amount\_Paid = 250.00

WHERE Cust-ID = 1;

Output

1 row updated

\* DELETE:

Query

SQL

DELETE FROM customer

WHERE Cust-ID = 2;

Output

1 row deleted;

Result: therefore, DDL and DML commands using MySQL has been implemented successfully.

VEL TECH	
EX NO.	21
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	4
RECORD (5)	4
TOTAL (20)	14
END WITH DATE	

6/18/2023

Task : 2.1 DDL and DML commands with

Date : 12/8/25 constraint

- Aim: To execute DDL and DML commands with constraints for the database

DDL (Data Definition Language) - Create, Alter, Drop, Rename.

DML (Data manipulation Language) - Insert, update, delete, Select.

constraints - Primary key, Foreign key NOT null, Unique, Check, default.

1. DDL commands for <sup>mobile purchase</sup> (~~commerce~~) Database management system

### 1.1 CREATE TABLE

```
create table userCustomer (
    custID INT PRIMARY KEY,
    CustName VARCHAR(50) NOT
    NULL,
    Email VARCHAR(100) UNIQUE,
    Phone VARCHAR(15) UNIQUE,
    Address VARCHAR(200) NOT
    NULL
);
```

-- Mobile Table

```
CREATE TABLE Mobile (
    mobileID INT PRIMARY KEY,
    Brand VARCHAR(50) NOT NULL,
    model VARCHAR(50) NOT NULL,
    price DECIMAL (10, 2) CHECK
    (price > 0),
    Stock INT CHECK (Stock >= 0)
);
```

-- Purchase Table

```
CREATE TABLE purchase(
    purchaseID INT PRIMARY KEY,
    custID INT NOT NULL,
    mobileID INT NOT NULL,
    quantity INT CHECK (quantity > 0),
    purchaseDate DATE DEFAULT
        CURRENT_DATE,
    FOREIGN KEY(custID)
    REFERENCES customer(custID),
    FOREIGN KEY(mobileID)
    REFERENCES mobile(mobileID)
);
```

-- Payment Table

```
CREATE TABLE payment(
    paymentID INT PRIMARY KEY,
    purchaseID INT UNIQUE,
    amount DECIMAL(10,2) NOT
        NULL,
    paymentDate DATE DEFAULT
        CURRENT_DATE,
    paymentMethod VARCHAR(20)
    CHECK(paymentMethod IN )
        ('UPI', 'Card', 'NetBanking', 'COD'),
    FOREIGN KEY(purchaseID)
    REFERENCES purchase(purchaseID)
);
```

## 1.2 ALTER TABLE

Alter table yu\_stommer ADD COLUMN gender  
VARCHAR(10);

## 1.3 TRUNCATE TABLE

Truncate Table Category;

Result: All rows removed from mobile  
table structure remains.

## 1.4 RENAME TABLE

Rename Table purchase to Purchasing;

2. DML commands for mobile purchasing  
database management System:

### 2.1 INSERT DATA

Insert into user values('121','9177662065','Sanjay',  
'Sanjay@gmail.com','password#1','Chennai');

1 row created

Insert into purchase(values (Purchase ID,  
Customer mobile ID, Quantity, Purchase Date)  
VALUES(1,101,20)

(2.2) UPDATE DATA:

Update mobile set Email = Sanjay@gmail  
.com where  
mobile ID = 111;

After updation:

Query:

SQL

Select \* from mobile;

mobileID	phone	name	Email	password	Address
111	843699124	yash	yash@g mail.com	#11	Chenn ai

### 2.3 DELETE DATA:

Delete from Payment Details where payment Details ID = 1000;

After deletion:

Query:

Sql >

Select \* from Payments Details

paymentDetailsID	PaymentID	ProductID
11	4199	711

  

Quantity	price of stnbase
1	30000

### 2.4 SELECT DATA

used to retrieve information.

Query: Select \* from mobile.

mobileID	Name	Description	ImageURL
1	realme	Branded mobile	motspf.

price	stock	Qty	Discount	Category
30000	15	1	5	

VELTECH	
EX No.	21
PERFORMANCE (5)	5
RESULT AND ANALYSIS (3)	6
VIVA VOCE (3)	10
RECORD (4)	-
TOTAL (15)	10

Result: Thus, the DDL and DML commands for E commerce Database management System was executed successfully.