

12/08/25

Task-2a

## Generating Design of other Traditional 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 sub of database objects such as tables

#### 1) Create Table:

Definition:- used to create a new table in database Query

SQL

```
CREATE TABLE MobilePhone (  
  customer id INT  
  Name VARCHAR (50);  
  and VARCHAR (30),  
  Amount INT  
);
```

Table created

Output: Tables ~~mobilephones~~ and customer

2. DESCRIBE or DESC

Definition: Displays the structure of table columns, names and datatypes

Query:-

SQL

DESC mobile phone

output:

ID	INT
MOBILE	VARCHAR (50)
BRAND	VARCHAR (30)
AMOUNT	INT

3. Drop table:- (Deletes the table)

Query :- DROP TABLE mobile phone

output:- table mobile phone successfully deleted

4. Alter table:- (Adds Add in table)

Query:- Alter table mobile phone ADD

Modify Model - NAME VARCHAR (100)

## DML Queries :-

\* Insert into : (Insert new rows in table)

Query:-

```
INSERT INTO mobile phone (ID, Mobile, Brand,  
Amount) values (1, 'iPhone',  
APPLE, 1,00,000);
```

Output:-

1 row inserted to mobile phone

SELECT : (retrieves data from one or more tables)


Query:-

SQL

```
SELECT * FROM Mobilephone
```

Output:-

ID	Mobile	Brand	Amount
1	Realme	Nargo	30000
2	Redmi	Poco	15000
3	vivo	1900	25000



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## Task-2b

Aim:- To design and implement a database for a mobile phone purchase and billing Management system that manages information about customer Bill, logic, mobile

Steps:- 1. Identify Entities

- customer
- Bill
- logic
- Mobile

2. Identify Attributes

customer  $\rightarrow$  cust-Name, cust-ID, cust-Phone No,  
cust-city, cust-amount Paid

Bill  $\rightarrow$  Price, Bid, cust-Name

logic  $\rightarrow$  Admin-ID, Password

Mobile  $\rightarrow$  mobile-Name, mobilePrice, mobile ID

3. Relationships

customer-Mobile  $\rightarrow$  (many to many) A customer can purchase multiple mobiles

customer Bill  $\rightarrow$  (one to many) A customer can have bills and bill is with one custom

Mobile-login  $\rightarrow$  (one to many) A mobile is associated with one login can be multiple mobiles.



CREATE TABLE customers (

cust-ID-VARCHAR (255) PRIMARY KEY,  
cust-Name-VARCHAR (255) NOT NULL,  
cust-phone-no VARCHAR (20) NOT NULL,  
cust-city VARCHAR (255) NOT NULL  
cust-amount-paid DECIMAL (10,2) NOT NULL

);

CREATE TABLE bill (

Bill-ID-VARCHAR (255) PRIMARY KEY,  
Price-DECIMAL (10,2) NOT NULL,  
cust-Name VARCHAR (255) NOT NULL,  
FOREIGN KEY (cust-Name) REFERENCES  
customer (cust-Name)

);

CREATE TABLE MOBILE

mobile-ID VARCHAR (255) PRIMARY KEY,  
mobile-Name VARCHAR (255) NOT NULL,  
mobile-Price DECIMAL (10,2) NOT NULL,  
Phone-ID-VARCHAR (255) NOT NULL,  
FOREIGN KEY (Phone-ID) REFERENCES Phone  
(Phone ID)

);

CREATE TABLE Admin (

Login-ID VARCHAR (255) PRIMARY KEY,  
Admin-ID VARCHAR (255) NOT NULL,  
Password VARCHAR (255) NOT NULL,

);

VEL TECH	
EX NO.	21
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	3
RECORD (5)	
TOTAL (20)	13
SIGN WITH DATE	

Result:- Thus the Design implement and a data base management system for the mobile phone has implemented successfully