Date: 12/08/25 TASK - 2

GENERATING design of other traditional AI Database Model.

Aim:- To generate design of other traditional data base model and implement DDL commands of Sql. with Samples.

Data definition Language [DDL]:

Definition; DDL commands are used to define modify or delete the surface of database such as tables.

1) Create table;

Definition: Is used to create new table in database

Query sql.

```
CREATE TABLE mobile phone c.

    customer id   INT
    Name VARCHAR (50),
     BRAND VARCHAR (20),
    Amount INT,
    );
```

Table created

output: Tables mobile phone and customer.

2) Describe (DD) Desc.

Definition: Displays the structure of tables (columns, names and datatypes)

Query

sql

DESC mobile phone

output:

ID	INT
MOBILE	VARCHAR (50)
BRAND	VARCHAR (50)
AMONUT	INT

3. Drop table: (Deletes the tables)

Query: DROP TABLE mobile phone

Output: Table mobile phone successfully defined.

4. After Table :- (Adds Add in a table)

Query :- Alter table mobile phone ADD modify model-Name VARCHAR (100)

II DML Queries:

① Insert into mobile phone (ID, mobile, Brand, Amount)

② Query: values (1, 'phone', 'Apple', 1,00.000);

→ Insert into ~~mobile ph~~: (Insert new data into table)

Output:

1 row inserted to mobile phone.

SELECT: 'create' data from, one or more tables)

Query:

Sql:

Select * From mobile phone

output

ID	mobile	Brand	Amount.
1	Realme	Narzo	30,000
2	Redmi	POCO	15,000
3	ViVO	₹900	25,000

Update: (modifies Existing data)

Query:

→ update mobile phone SET ID = 2W HERE amount = 30,000

1 row updated.

⊗ Delete: (Delete one or more rows from a table)

Query: 1row deleted

⊛ SELECT (Retrieves specific records that satisfy the conditions.

Query:-

= Select * From mobile phone WHERE NAME = 'Redmi';

output:-

ID	Mobile	Brand	Amount
2	Redmi	POCO	15,000

VEL TECH	
EX NO.	2
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	-
TOTAL (20)	10
SIGN WITH DATE	19/6

Result: Thus, the DDL and DML Commands using mysql has been Implemented successfully.

19/08/25

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 → cust - Name, cust - ID, cust - phone NO, cust - city, cust - amount paid.

Bill → Price, Bid, cust Name.

logic → Mobile - Name, mobile price, mobile ID

3. Relationships:

- customer - Mobile → (many-to-many) A customer can purchase multiple mobiles
- Customer - Bill → (one-to-many) A customer can have bills and bill is with one customer.
- Mobile - Login → (one-to-many) A mobile is associated with one Login can be done in 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,
);
```

Constraints

1. Primary keys:

- Login - ID in login.
- Cust_ID in customer
- Bill in Bill
- Phone_ID in mobile.

2. Foreign keys:

- Cust_Name in Bill
  Reference Cust_Name in customer
- Phone_ID in Mobile is a foreign key.

Result:

Thus, the design implement and a Database management system, for the mobile phone has been implemented successfully.

VEL TECH	
EX NO.	2.1
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	3
RECORD (5)	
TOTAL (20)	13
SIGN WITH DATE	

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