

Date: 12/8/25

TASK-2.1

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 structure of data base 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 type).

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 (Add fields in a table)

Query

ALTER TABLE customer

ADD COLUMN Email VARCHAR(100);

output

"commands completed successfully."

ii

DML Queries:

Query:

SQL

INSERT INTO customer (cust - ID, cust - Name, Phone - No, city, Amount - Paid) VALUES 1 'John Doe', 123 - 456 - 7890 'New York' (10.00);

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

VEL TECH	
EX NO.	2
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	0
RECORD (5)	1
TOTAL (20)	10
SIGN WITH DATE	

Result:

Therefore DDL and DML commands using my SQL has been implemented successfully.

17/5

Task-22

Date: 2/8/25

Aim: To design and implement a database for mobile Phone Purchase and Billing management system that manages information about a customer, Bill, login, mobile.

Steps: 1. Identify Entities

- customer
- Bill
- login
- mobile

2. Identify Attributes

customer \rightarrow cust - Name, cust - ID, cust - Phone No

cust - city, cust - amount Paid

Bill \rightarrow Price, Bid, cust Name

login \rightarrow Admin ID, Password.

mobile \rightarrow mobile - Name, mobile Price, 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 customer

• mobile - login \rightarrow (one - to - many) A mobile is associated with one login for multiple mobiles.

CREATE TABLE customers (

cust-ID VARCHAR (255) PRIMARY KEY,

cust-Name VARCHAR (255) NOT NULL

cust-Phone-no VARCHAR (30) 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
customers (cust-Name)

);

CREATE TABLE MOBILE (

mobile-ID VARCHAR (255) PRIMARY KEY

mobile-Name VARCHAR (255) NOT NULL,

mobile-Price DECIMAL (10,1) NOT NULL,

mpPhone-ID VARCHAR (255) NOT NULL,

FOREIGN KEY (Phone-ID) REFERENCE Phone
(Phone-ID)

);

CREATE TABLE Admin (

login-ID VARCHAR (255) PRIMARY KEY

Admin-ID VARCHAR (255) NOT NULL

Password VARCHAR (255) NOT NULL,

);

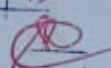
constraints

① Primary keys:

- login - ID in login
- cust - ID in customer
- Bid in Bill
- Phone - ID in mobile

2. Foreign keys:

cust - Name in customer
Phone - ID in mobile is a foreign.

VEL TECH	
EX NO.	21
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	2
RECORD (5)	
TOTAL (20)	13
SIGN WITH DATE	

26/8

Result: Thus the implement a database for mobile Phone Purchase and Billing management system is successfully completed