

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 database objects such as tables.

1) Create Table:

Definition: Used to create a new table in database query

SQL

```
CREATE TABLE Mobile phone (
  CustomerId INT
  Mobile VARCHAR (50),
  Brand VARCHAR (30),
  Amount INT
);
```

Table created

Output:- Tables mobile phone 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

Drop Table: (Deletes the table)

Query:- DROP TABLE mobile phone

Output: Table mobile phone successfully deleted

Alter Table: (Adds Add in a table)

Query: => Alter table mobile phone ADD
~~subedit~~ model-name VARCHAR(100)

DDL Queries:

* INSERT INTO: (insert new rows in table)

Query:

→ INSERT INTO mobilephone (ID, ~~mobile~~,
Brand, Amount) VALUES (1, 'iphone',
'Apple', 100000);

Output:

1 row inserted to mobilephone

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

Query:

SQL

SELECT * FROM mobilephone

Output:

ID	mobile	Brand	Amount
1	Realme	Nu5190	30,000
2	Redmi	POCO	15,000
3	VIVO	1900	25,000

* Update: (Modifies Existing data)

Query:

→ Update mobile phone SET ID = 2 WHERE
Amount = 30,000

1 row updated

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

Query: 1 row deleted;


* Select: (Retrieves specific record that satisfy the conditions)

Query:

→ SELECT * FROM Mobile phones WHERE
mobile = 'Redmi';

Output:

ID	Mobile	Brand	Amount
2	Redmi	POCO	151000

VEL TECH	
EX NO.	2.1
PERFORMANCE (5)	8
RESULT AND ANALYSIS (5)	8
VIVA VOCE (5)	5
RECORD (5)	-
TOTAL (20)	15
SIGN WITH DATE	

Result: Thus, the DDL and DML commands
using MySQL has been implemented success
fully.

Aim: To execute DDL and DML Commands with Constraints for the database DDL (Data Definition Language) - Create, Alter, Drop, Truncate, Rename

DML (Data Manipulation Language) - Insert, Update, delete, select

Constraints - primary key, foreign key, NOT NULL, unique, check, default

1. DDL Commands for mobile phone purchasing Database management system:

1.1 CREATE Table

Create Table Customer (

CUSTID INT PRIMARY KEY,

CUSTNAME VARCHAR(50) NOT NULL,

Email VARCHAR(100) UNIQUE

);

~~CREATE~~ TABLE Mobile (

MOBILEID INT PRIMARY KEY,

Brand VARCHAR(50) NOT NULL,

Model VARCHAR(50) NOT NULL,

Price DECIMAL(10, 2) CHECK (Price

);

```

CREATE TABLE purchase (
    purchase ID INT PRIMARY KEY,
    cust ID NOT NULL,
    mobile ID NOT NULL,
    quantity INT CHECK (quantity > 0),
    purchase DATE DATE DEFAULT CURRENT
    DATE,
    FOREIGN KEY (cust ID),
    REFERENCES customers (cust ID),
    FOREIGN KEY (mobile ID)
    REFERENCES mobile (mobile ID)
);

```

```

CREATE TABLE payment (
    payment ID INT PRIMARY KEY,
    purchase ID INT UNIQUE,
    amount DECIMAL (10,2) NOT NULL,
    payment DATE DATE DEFAULT
    (CURRENT - DATE,
    payment method VARCHAR (20)
    CHECK (payment method IN ('OD', 'cash',
    'netbanking', 'COD')),
    FOREIGN KEY (purchase ID)
    REFERENCES purchase (purchase ID)
);

```


1.2 ALTER TABLE

ALTER TABLE CUSTOMER 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, '637378
574', 'Ganesh', 'ganesh@gmail.com', 'password
'chennai',);

1 row created

INSERT INTO PURCHASE VALUES (purchase ID,
CUST, mobile ID, quantity, purchase date.)
VALUES (1, 101, 201, 2, '2025-08-26');

insert into mobile value (1, 'Android 11ems');
row created

insert into payment values (999, 111, 2025-
-08-19; 30000 pending)

row created

insert into reviews values (101, 111, 711,
2025-08-20);

4) Good product of worth 'it', product is
at its good post and afford to buy it);

row created

insert into payment values (1000, 999,
'2025-08-19', (completed),

Row created

Result: Rewards inserted successfully

(2.2) UPDATE DATA:

update mobile set email = 'ganesh@gmail
com. where

Mobile Id = 111;

After updation:

Query:

SQL

SELECT * FROM Mobile;

Mobile Id	Phone	Name	Email	Password	Address
111	83443787	Ganesh	ganesh@gmail.com	#7	Chennai

2.3 DELETE DATA

Delete from payment details where .payment
Detail ID = 1000;

After deletion;

Query;

SQL >

SELECT * FROM ~~payment~~ Details

Payment Details Id	Payment Id
11	499

Product Id	Quantity	Price.
711	1	30000.

2.4 SELECT DATA

Used to retrieve information

Query:

SELECT * FROM Mobile.

Mobile ID	Name	Description	Image PL
711	realmp	Branded mobile phone	moto.jpg

Price	Stock	Qty	Discount	Category
80000.	15	1	5	2

VEL TECH	
EX NO.	22
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	3
RECORD (5)	1
TOTAL (20)	13
SIGN WITH DATE	

Result: Thus, the DDL and DML commands for mobile phone purchasing database management system was executed successfully.