

Implementation of DDL & DML commands

Aim: To implement the different queries in DDL & DML involved in the design & implement of a data base system in Mysql.

(i) DDL Queries

- ★ Create table: helps create a new table

Query:

>>> Create table students(studid int, stuname varchar(10), rollno int, marks int);

Output:

Table created

- ★ Describe: Shows fields & types of data.

Query:

>>> Desc students;

Output:

Field	Type
STUID	Number (32)
STUNAME	VARCHAR (10)
ROLLNO	NUMBER (38)
MARKS	NUMBER (38)

★ Drop Table: (deletes the table)

Query:

»» Drop table students;

Output:

Table deleted.

★ Alter Table: (Adds fields in a table)

Query:

»» ALTER TABLE students ADD subject varchar(10);

Output:

subject field added.

ii) DML Query

★ Insert into ⇒ (inserts records into the table)

Query:

» INSERT INTO students values (3, 'shami',
643, 78);

★ SELECT - (Retrieves data from one or more tables)

Query:

» Select * from students;

Output:

STUDID	STUNAME	ROLLNO	MARKS
1	Anubhav	128	89
2	Shami	190	92
3	Shekhar	112	88
4	Aman	001	56

★ UPDATE ⇒ (Modifies existing data)

>>> UPDATE students SET STUDID=20 WHERE
ROLLNO =190;

Output:

1 row Updated.

★ Delete: (Deletes one or more rows from a table)

Query:

>>> Delete from students where stud=2;

Output

1 Row Deleted.

* SELECT (Retrives Records that satisfies the condition)

Query:

>>> SELECT * From Students where
studid = 1;

STUDID	STUNAME	ROLLNO	MARKS
1	Anubhav	128	84

VEL TECH	
EX NO.	2
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	—
TOTAL (20)	15
SIGN WITH DATE	

Result:

Therefore, DDL & DML commands using
MySQL has been implemented successfully.

Date: 12/08/23

Task 2-1

DDL And DML Command with Query Constraints

Aim:

To design and implement a database for a sports event Management System that manages information about teams, coaches, players and matches using SQL DDL.

Steps : 1) Identify Entities

- Team
- Coach
- Player
- Match

2) Identify Attributes

- Team \rightarrow (Team, Name, Homeground, CoachID)
- Coach \rightarrow (CoachID, Name, Experience)
- Player \rightarrow (PlayerID, Name, Position, TeamID)
- Match \rightarrow (MatchID, MatchDate, HomeTeamID)

3) Identify Relationship

- Team - Coach \rightarrow one-to-one
- Team - Player \rightarrow one-to-many
- Match - Team \rightarrow many-to-one

4) Reframe Relation with Keys & constraints

\rightarrow Primary Key - TeamID, CoachID, PlayerID
MatchID,

• Foreign keys → Coach ID in Team, TeamID

1) DDL COMMANDS

★ Table for Teams

CREATE Table Team(

Team ID INT Primary Key,

Team Name Varchar(50) NOT NULL,

Homeground Varchar(50),

CoachID INT UNIQUE,

Foreign Key (CoachID) References Coach
(CoachID))

);

Table for Coaches

Create Table Coach(

CoachID INT Primary Key,

CoachName Varchar(50) NOT NULL,

Experience INT,

TeamID Unique,

Foreign Key (TeamID) References

Team (TeamID)

);

Table for Players

Create Table Players (

Player ID INT Primary Key,

Player Name Varchar (50),

Position Varchar (30)

TeamID INT,

ForeignKey (TeamID) References
Team (TeamID)

);

SQL> DESC COACH;

Name	Null?	Type
COACHID	NOT NULL	NUMBER (38)
NAME	NOT NULL	VARCHAR (50)
EXPERIENCE		NUMBER (38)
TEAMID		NUMBER (38)

SQL> DESC PLAYER;

Name	NULL?	Type
PlayerID	NOT NULL	NUMBER (38)
Name	NOT NULL	VARCHAR (50)
Position		VARCHAR (50)
TeamID		NUMBER (38)

SQL> DESC Team;

Name	NULL?	Type
TeamID	NOT NULL	NUMBER(38)
Name		VARCHAR2(50)
Homeground		VARCHAR2(50)
CoachID		NUMBER(38)

SQL> ~~MA~~ DESC Match;

Name	NULL?	TYPE
MatchID	NOT NULL	NUMBER(38)
Match Date	NOT NULL	DATE
Home TeamID		NUMBER(38)
AWAY TeamID		NUMBER(38)

2) DML COMMANDS

1) Insert

SQL> ~~Insert~~ into team (teamID, Name, Homeground, coachID) values (1, 'Warriors', 'Stadium A', Null);

1 row created 2) Select

SQL> Select * from team;

TEAMID	Name	Homeground	Coach ID
1	Warriors	Stadium A	NULL

3) UPDATE

SQL> UPDATE team

2 set Homeground = 'Stadium B'

3 WHERE TeamID = 1;

TeamID	Name	Homeground	CoachID
1	Wassioss	Stadium B	NULL

4) Delete

SQL> DELETE FROM team

2 WHERE TEAMID = 1;

1 row deleted.

Result:

The the Sql command for DDL & DML query
has been executed Successfully.

VEL TECH	
EX NO.	2-1
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	25
SIGN WITH DATE	12/8/25