

After the table

class student

STU-ID	INT
STU-NAME	VARCHAR(30)
STU-DEPARTMENT	VARCHAR(30)
STU-GENDER	VARCHAR(5)
STU-PIN NO.	INT
STU-DEPART-ID	INT

After inserting
values into table

Sno	STU-ID	STU-NAME	STU-depart	STU-gender	STU-ph
1	29459	Sharan	CSE	Male	822874
2	29476	Krishan	CSE	Male	84418

4/8/25

Generating design of commands other traditional database mode

Aim:

To perform (DDL) data definition language
and (DML) data manipulation language

Commands

DDL Commands :

→ Create → rename

→ Drop

→ Alter

→ Truncate

DML Commands

→ Insert

→ update

→ select

→ delete

DDL commands:

* Creating a table by using create commands

```
CREATE TABLE student (
```

~~✓~~ stu-id int,

stu-name varchar(30)

stu-department - varchar(10),

stu-gender - varchar(5)

stu-ph.no int:);

After updating the table previous
selab * from student

S.no	stu.id	stu.name	stu.department	stu.gender
1.	30644	selvaran	CSE	Male
2.	28800	Ramash	ECB	Male

(1) select * from student;

2) insert into student values

(1) (100, "ram", "mca", "mca")

(2) (101, "rahul", "mca", "mca")

(3) (102, "rakesh", "mca", "mca")

Drop command is used to drop the table completely DROP Table.
student.

~~TOP~~ TRUNCATE

TRUNCATE command is used to drop all data but keeps ..

TRUNCATE TABLE STUDENT

DML COMMANDS

INSERTS

* INSERT command is used to insert the values to the table.

INSERT INTO student values

(28487, Jegan, 'CSE', Male', 848624')

(29477, Ram, 'CSE', male', SH151)

UPDATE

* UPDATE command is used to update the records.

UPDATE STUDENT

Set stu-name = ' Ram'

WHERE stu-ID = 28800

Ex:

CREATE TABLE Student .

ROLL NO INT,

NAME VARCHAR (30),

Age INT

COURSE VARCHAR (30));

ALTER TABLE STUDENTS ADD

Email VARCHAR (50);

INSERT INTO Students VALUES

1) 'Suresh' , 19 , 'BTech' , suresh@gmail.com

2) 'sai' , 21 , 'B.Tech' ; sai@gmail.com

SELECT NAME FROM Student :

S.NO Name

1 sai

2 Suresh

SELECT * FROM - Students

WHERE Name = "Suganthan"

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	RAHM

Result :

All the DDL and DML commands are successfully executed.

Task-2.2 => DDL and DML Commands with Constraints

11/8/25

Aim:

To implement the DDL and DML command with constraints.

DDL Commands:

CREATE, ALTER, DROP, TRUNCATE, RENAME

DML Commands:

INSERT, UPDATE, DELETE, SELECT

Constraints:

Primary key

Foreign key

• UNIQUE

CHECK

NOTNULL

DEFAULT

CREATE TABLE Books

BOOKID INT PRIMARY KEY

Title VARCHAR (150) NOTNULL

Author VARCHAR (8,12)

Published Year INT DEFAULT 2020,

ISBN VARCHAR (20) UNIQUE

;

SELECT * FROM STUDENT -> Before performing
ALTER Command

STU_ID	STU NAME	STU DEPARTMENT	STU GENDER	STU PHONE
1	RAVI	102	MALE	852628
2	RAM	101	FEMALE	875432

SELECT * FROM DEPARTMENT - Before performing ALTER

DEPT_ID	STUD_ID	STU_NAME	S_DEPARTMENT	STU_GENDER	STU_PHONE
1	1	RAVI	102	MALE	976543
2	2	ANITHA	103	FEMALE	9782152

SELECT * FROM STUDENT - After performing alter command.

STU_ID	STU_NAME	STU_DEPAT	STU_Gender	STU_PHONE
1	RAVI	102	Male	9782508

CREATE TABLE Borrow (BookID INT PRIMARY KEY,

BookID NOT NULL,

MemberID INT NOT NULL,

MemberID NOT NULL;

BorrowDate DATE DEFAULT CURRENT_DATE,

FOREIGN KEY (MemberID) REFERENCES Member

;

1.2 ALTER TABLE

ALTER TABLE Books ADD Publisher VARCHAR(10)

ALTER TABLE Books MODIFY Price
DECIMAL(10,2);

1.3 TRUNCATE TABLE

TRUNCATE TABLE Borrow;

TABLE truncated

1.4 RENAME TABLE

RENAME TABLE Members to library
members;

TABLE Renamed.

SELECT * FROM STUDENTS AFTER Inserting Data

STU-ID	STU-NAME	STU-DEPT	STU-ADDRESS	STU-PINCODE
1	KAVI	102	MALE	9876543210
2	RAM	101	MALE	9876543211
3	ANITA	101	MALE	9922221111

SELECT * FROM DEPARTMENT After inserting Values.

DEPT-ID	DEPT-NAME
1	CSE
2	ECE
3	IT

DML commands for library Management System

2.1 INSERT Data

INSERT INTO BOOKS (BOOKID, Title, Author, Price, PublishedYear, ISBN)

Value (1, 'The Alchemist', 'Paulo Coelho', 350, 2018, '978007247245');

INSERT INTO Borrow (BorrowID, BookID, MemberID, BorrowDate, ReturnDate)

VALUES (100, 1, 101, '2021-08-10', '2022-08-10');

Output After INSERT:

Books Table

BookID	Title	Author	Price	PublishedYear
1	The Alchemist	Paulo Coelho	350.00	2018

2.2 UPDATE Data

UPDATE Books

SET Price = 400.00, PublishYear = 2022

WHERE BookID = 1;

Output:

1 row updated successfully.

Books Table After Update

Book ID	Title	Author	Price	Publish
1	The Alchemist	paulo almeida	400	NULL

2.4 SELECT with JOIN:

SELECT b.Title , b.Author , l.Membername,
FROM Borrower
JOIN Library , Member ON br.MemberID = l.
MemberID;

Output:

No rows returned as Borrow table is
empty.

VELTECH	
LX No.	22
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOICE (5)	3
RECORD (5)	-
TOTAL (25)	13
SIGN WITH DATE	12/12/2023

Result:

All DDL and DML commands executed
successfully with constraints and
outputs: