

Date - 4/18/2023

Generating design of commands after logik-2

Aim:- To perform (DDL) data definition language and (DML) Data manipulation language commands.

DDL Commands

- Create → Alter → Rename → Drop
- Truncate.

DML Commands

- Insert → Delete → Update
- Select.

DDL commands :-

Create

* 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;

* Using Alter command we can add or remove the column.

Syntax

ALTER Table Student ADD .column

Stu-depart-id int;

Drop

* Drop Command is used to remove all body the table completely.

Drop table Student

Truncate:-

- * truncate command is used to remove all data but keep structure

TRUNCATE table Student

DML COMMANDS:-

Insert:-

- * Insert command is used to insert the values to the table

Insert into Student (values)

(30628, Shrawan CSE "Male" 8688056)

(28800, Miside ECE "Male", 123456)

UPDATE:-

- * Update Command is used to update the existing records

Update Student

Stu-name = 'Mohish'

Where Stu-ID = 28800;

DELETE

- * Delete command is used to delete a record.

Delete from Student;

Where Stu-ID = 28800;

SELECT:-

- * Select command is used to retrieve the records from table

"Select" from Student

S.No	Stu-ID	Stu-name	Stu-department	Stu-gender	Stu-no
1	30628	Shrawan	CSE	male	8688056

Ex:- CREATE TABLE Students (

RollNo INT;

Name VARCHAR (30);

age INT;

Course VARCHAR (30);

Alter table Students values.

Email varchar (50);

Insert Into Students values

(1. Shravan : 19 "Dtech values ,

(2. Roy' 20, "Dtech" apple@gmail.com)

(3. Joy. 21, D-Tech Joy@gmail.com)

UPDATE Students

Set email = vtu30182@gmail.com

WHERE Roll.No = 1;

DELETE From Students

WHERE Roll.no = 2;

SELECT * From Students;

S.No	RollNo	name	Age	Degree	Email
1	1	Shravan	19	D-Tech	vtu30182@gmail.com
2	3	Joy	21	D-Tech	Joy@gmail.com

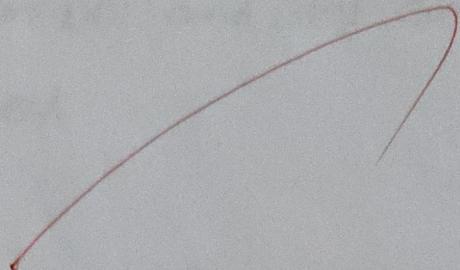
SELECT NAME from Student :-

sno	Name
1	Shravan
2	Joy

SELECT * From Student:-

WHERE name = Sharavani:-

S.No	Roll No	Name	age	course	E-mail
1	1	Sharavani	19	Btech	vtu30682@gmail.com



VELTECH	
EX No.	25
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	1
RECORD (5)	
TOTAL (20)	11
SIGN WITH DATE	25/8/13

VEL TECH	
EX No.	
PERFORMANCE (5)	
RESULT AND ANALYSIS (5)	
VIVA VOCE (3)	
RECORD (4)	
TOTAL (15)	
SIGN WITH DATE	

Rgret:

All the DDL and DML commands are in
Sal are success fully executed.

TASK-2.2 - DDL and DML Commands with Constraints.

Aim:- To perform DDL and DML commands with Constraints in SQL

Constraints:-

- Not Null → Foreign key → Unique.
- Check → Primary Key → Default.

Not Null:-

It ensures a column cannot store null values.

Syntax:-

```
CREATE TABLE TABLE-Name (  
    Column Name DATA-type
```

Unique:-

It ensures all values in a column are unique.

Syntax:-

```
CREATE TABLE total name (  
    Column name datatype unique)
```

Primary Key:-

It is the combination of not null & unique.

Foreign key:- It ensures values in one table match values in another table.

Syntax-

Foreign key (column name) Reference another values (column name).

Default- it provides a default value for a column when none is specified.

Example:

CREATE TABLE Department

Dept - ID INT primary key

Dept - Name VARCHAR (50) NOT NULL
(CREATE TABLE STUDENT)

STU-ID INT primary key

STU-Name VARCHAR (30) NOT NULL

STU - Department INT Defaultly

STU - Gender VARCHAR (6)

CHECK (STU.Gender
IN ('Male', 'Female'))

STU-PHNO DIGIT Unique

Foreign Key (STU-DEPARTMENT Reference)

DEPARTMENT CDERT

Insert INTO DEPARTMENT values.

Dept (101, "CSG")

(102, "ECG")

(103, "IT")

Insert No Student values,

(1. Ravi 102 Male 9876543210)

(1. Anitha "Female 9815501234,

SELECT "From DEPARTMENT")

Select from Student → Delete from Alter Command

S.no	Stu-ID	Stu-Name	Stu-Dept	Studentgender	Stu-Phone
1	1	Ravi	102	Male	897654321
2	2	Anita	101	Female	987450123

Select :- From Department → Delete Perform
Alter Command

S.no	Stu-ID	Dept-Name
1	101	CG
2	102	ECG
3	103	IT

Select :- From Student : after Performing update Command

Stu-ID	Stu-Name	Stu-Dept	Studentgender	Stu-Phone	Stu-EMail
1	Ravi	102	Male	987654321	Null
2	Anita	101	Female	987450123	Null

SELECT * from Student

ALTER TABLE STUDENT

ADD STU_email VARCHAR (50) Default

"veltech@gmail.com"

SNo	stu_ID	stu_Name	Department	gender	phoneno	stu_email
1	101	Ravi	B-Tech	male	970102882	Null
2	102	Anitha	B-Tech	female	7337268109	Null.

UPDATE STUDENT

SET stu_department = 'CSE'

WHERE stu_name = 'ANITA'

DELETE From Department

WHERE Dept_ID = 1;

Insert ID Student values.

1. (ANITA : FEMALE : 7337268109) ;

(7 : Sheshraju : MALE : 9701027762) ;

DROPTABLE DEPARTMENT

----- Error -----

Could not drop object "DEPARTMENT"

Because it is referenced by a Foreign key constraint

To solve this first we have to drop student table or we have to drop department table

select from students - After inserting values

STUDID	STUDENT NAME	DEPT. NO.	STUDENT NO.	STU-PHNO	STU-EMAIL
1	Rajiv	102	male	9876543210	Null
2	Anisha	101	Female	9876501234	anisha@gmail.com
3	Sherya	101	male	73322679	Null

select - from Department after inserting values

SLNO	DEPT-ID	DEPT-NAME
1	101	CS
2	102	IT
3	103	IT

"THREE ROWS" added with three blank

transactions for inserting and removing the data removed
three rows with student id 101 and dept id 103
and three rows with student id 102 and dept id 102

VELTECH	
EX No.	20
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (3)	1
RECORD (5)	
TOTAL (20)	11
SIGN WITH DATE	

C
4/8/19

VELTECH	
EX NO.	
PERFORMANCE (5)	
RESULT AND ANALYSIS (5)	
VIVA VOCE (3)	
RECORD (4)	
TOTAL (15)	
SIGN WITH DATE	

Result:- All the DDL and DML commands
with constraints are performed are executed
 successfully.