

DDL and DML Commands

Aim: To perform DDL and DML commands with constraints in SQL.

Constraints:

- NOT & NULL
- UNIQUE
- Primary key
- Foreign key
- Check
- default

It ensures a column cannot store null values

SYNTAX:

CREATE TABLE TABLE NAME (
COLUMNNAME DATATYPE NOT NULL);

UNIQUE:

It ensure all values in a column are unique.

SYNTAX

CREATE TABLE table name (
columnname datatype UNIQUE);

Primary key:

It is a combination of NOT NULL and UNIQUE.

SELECT * FROM STUDENT -- Before performing ALTER Command

S.No	STONAME	STU DEPARTMENT	STO Gender	STO PIN NO
1	Chandu	102	Male	934946300
2	Nishika	101	Female	932446370

SELECT * FROM DEPARTMENT -- Before performing ALTER Command.

STU ID		
1	101	ESE
2	102	EEE
3	103	IT

SELECT * FROM STUDENT -- After performing up the Command

S.No	STO ID	STONAME	STO Department	STO Gender	STO AID	STO Email
1	1	Chandu	102	Male	932446400	Nishika
2	2	Nishika	103	Female	932446400	Nishika

SELECT * FROM student -- after performing delete Command.

S.No.	STONo	STONAME	STO DEPARTMENT	STO Gender	STO Pin	STO Email
1	1	Chandu	102	Male	9302436400	Nishika

FOREIGN key

It ensures values in one table match values in another table

SYNTAX

FOREIGN key (column name) REFERENCE
another table name (column name)

Default

It provides a default value for a column when name is specified.

Example:

```
CREATE TABLE DEPARTMENT
```

```
DEPT - ID INT PRIMARY key
```

```
DEPT - NAME VARCHAR (20) UNIQUE NOT NULL
```

```
CREATE TABLE DEPARTMENT
```

```
DEPT - ID INT PRIMARY KEY
```

```
DEPT . NAME . VARCHAR(20) unique NOT NULL
```

```
STU - DEPARTMENT INT DEFAULT (0),  
STU - GENDER VARCHAR (1)
```

```
CHECK (STU - GENDER)
```

```
IN ('MALE', 'F (NAME)
```

```
STU - PHNO . BIGINT UNIQUE
```

```
FOREIGN KEY (STU - DEPARTMENT)
```

```
REFERENCES
```

```
DEPARTMENT (DEPT ID)
```


① SELECT * FROM STUDENTES --- AFTER Values

S.No	STO ID	STO Name	STO Department	STO GENDER	STO Email
1	1	Charvi	101	male	
2	2	Nishika	101	Female	
3	3	Harshi	101	Female	

SELECT * FROM DEPARTMENT --- After Inserting values

S.No	DEPT ID	DEPT NAME
1	101	ESE
2	102	ECE
3	103	IT

INSERT INTO DEPARTMENT VALUES
 (101, 'CE'),
 (102, 'ELT'),
 (103, 'IS');

INSERT: NO STUDENT VALUES

(1) 'Chandu', 102, 'MALE', 9392436400
 (2) 'Nishila', Female, 9392436403

SELECT * FROM DEPARTMENT;
 SELECT * FROM STUDENT;

Drop Table 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 after we have
 to drop Department table

VRL TECH - USE	
EX NO.	5
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	3
VIVA VOCE (5)	—
RECORD (5)	13
TOTAL (20)	18
DATE	

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