

Hotwax Training

Assignment : Day 3

Task 1: Ways to provide enumerations in SQL.

There are mostly two methods to provide enumerations in a SQL Database. As I'm using MySQL Database, So, here is the description of those two methods:

1. Using **enum** data-type :

Example: CREATE TABLE users(
 id INT PRIMARY KEY NOT NULL AUTO_INCREMENT,
 name VARCHAR(50),
 gender ENUM ('Male', 'Female', 'Other')
);

But, let if we want **to add one more column** in the above table "isMember" having values only Yes or No then we can add this as:

```
ALTER TABLE users ADD COLUMN isMember ENUM('Yes', 'No');
```

So, **for inserting data**, the INSERT query will be like:

```
INSERT INTO users (id, name, gender, isMember) VALUES  
    (1, 'Payal', 'Female', 'Yes'),  
    (2, 'Muskan', 'Female', 'No');
```

2. Using **CHECK** constraint :

Example: CREATE TABLE students(
 s_id INT PRIMARY KEY AUTO_INCREMENT,
 s_name VARCHAR(50),
 is_registered VARCHAR(10) NOT NULL DEFAULT ('No'),
 CHECK (is_registered IN ('Yes', 'No'))
);

But this method was built for MySQL8.0 or above only.

Note: MySQL takes the enum values as integers internally, like,
True = 1
False = 2
NULL = 0

Task 2: Explore TINYINT, INT and BIGINT.

Hotwax Training

Assignment : Day 3

1. **TINYINT** datatype :
 - Size = 1 byte (8 bits)
 - Signed Range = -127 to +128
 - Unsigned range = 0 to 255
2. **INT (or INTEGER)** datatype :
 - Size = 4 bytes (32 bits)
 - Signed Range = -9,223,372,036,854,775,808 to +9,223,372,036,854,775,807
(-2^{31} to $2^{31}-1$)
 - Unsigned Range = 0 to 4,294,967,295 (0 to $2^{32}-1$)
3. **BIGINT** datatype :
 - Size = 8 bytes (64 bits)
 - Signed Range = -9,223,372,036,854,775,808 to +9,223,372,036,854,775,807
(-2^{63} to $2^{63}-1$)
 - Unsigned Range = 0 to 18,446,744,073,709,551,615 (0 to $2^{64}-1$)

Where to use which datatype?

TINYINT - Boolean values, Status flags, Ratings, User Roles, Categories etc.

INT - For Moderate sized values like, count of orders, products and in case of user id etc.

BIGINT - For extreme large values like money or financial data, views, time-stamps etc.

TASK 3: Usage of CASCADE.

CASCADING is used in the scenario where two tables are joined by foreign keys. Basically, when we want some changes in one table to be reflected in another table also which is connected through some foreign key, then we use cascading.

A parent table is the main table and the child table is the table in which we use a attribute of parent table as foreign key.

This can be used in two ways like :

1. **ON DELETE CASCADE** - When a row in the parent table is deleted, all matching rows in the child table are automatically deleted.

Example:

Consider a 'departments' table as parent table:

```
CREATE TABLE departments (  
    dept_id INT PRIMARY KEY,  
    dept_name VARCHAR(50)  
);
```

Consider another table 'teacher' as child table:

Hotwax Training

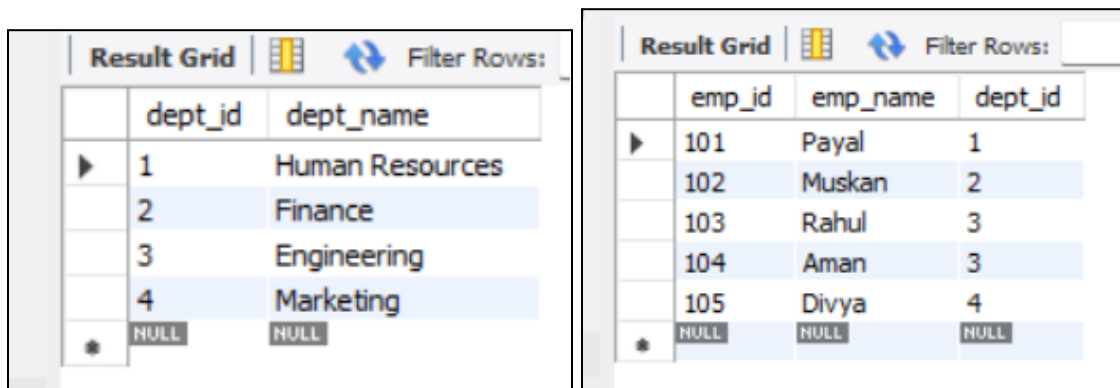
Assignment : Day 3

```
CREATE TABLE employees (  
    emp_id INT PRIMARY KEY,  
    emp_name VARCHAR(50),  
    dept_id INT,  
    FOREIGN KEY (dept_id) REFERENCES departments(dept_id)  
    ON DELETE CASCADE  
);
```

Now insert some data into both the tables:

```
INSERT INTO departments (dept_id, dept_name) VALUES  
(1, 'Human Resources'),  
(2, 'Finance'),  
(3, 'Engineering'),  
(4, 'Marketing');
```

```
INSERT INTO employees (emp_id, emp_name, dept_id) VALUES  
(101, 'Payal', 1),  
(102, 'Muskan', 2),  
(103, 'Rahul', 3),  
(104, 'Aman', 3),  
(105, 'Harsh', 4);
```



dept_id	dept_name
1	Human Resources
2	Finance
3	Engineering
4	Marketing
NULL	NULL

emp_id	emp_name	dept_id
101	Payal	1
102	Muskan	2
103	Rahul	3
104	Aman	3
105	Divya	4
NULL	NULL	NULL

Now on deleting row 3 from the departments table, the rows in the employees table working in the deleted department will also be deleted.

```
DELETE FROM departments WHERE dept_id = 3;
```

OUTPUT :

Hotwax Training

Assignment : Day 3

dept_id	dept_name
1	Human Resources
2	Finance
4	Marketing
NULL	NULL

emp_id	emp_name	dept_id
101	Payal	1
102	Muskan	2
105	Divya	4
NULL	NULL	NULL

2. ON UPDATE CASCADE :

When a value in the **parent table** is updated (like a primary key), the **foreign key** in the child table is **automatically updated**.

Because the primary key of the parent table works as foreign key in the child table.

Example: In the above tables department and employees, if we use ON UPDATE CASCADE, instead of ON DELETE CASCADE, the updated values of department table will also get updated in employees table:

Now, first drop the employee table and create the employee table again using ON UPDATE CASCADE :

```
CREATE TABLE employees (  
    emp_id INT PRIMARY KEY,  
    emp_name VARCHAR(50),  
    dept_id INT,  
    FOREIGN KEY (dept_id) REFERENCES departments(dept_id) ON UPDATE CASCADE  
);
```

Before updation:

Hotwax Training





Assignment : Day 3





Result Grid	Filter Rows:
dept_id	dept_name
1	Human Resources
2	Finance
3	Engineering
4	Marketing
NULL	NULL

Now update some row:

UPDATE departments SET dept_id = 5 WHERE dept_id = 4;

After updation:

Result Grid				Filter Rows:	
	dept_id	dept_name			
	1	Human Resources			
	2	Finance			
	3	Engineering			
	5	Marketing			
	NULL	NULL			

Result Grid				Filter Rows:	
	emp_id	emp_name	dept_id		
	101	Payal	1		
	102	Muskan	2		
	103	Rahul	3		
	104	Aman	3		
	105	Divya	5		
	NULL	NULL	NULL		

3. ON DELETE SET NULL :

It sets the value of foreign key as null in child table which is deleted from the parent table.

Hotwax Training

Assignment : Day 3

TASK 4: Total 50 SQL Queries for Create, Insert and Alter Commands.

1. CREATE DATABASE TEST;
2. CREATE TABLE carbrands(id int PRIMARY KEY NOT NULL, name VARCHAR(20), Ex_showroom_price INT, launch_date date, company varchar(20));
3. ALTER TABLE carbrands ADD COLUMN model varchar(20);
4. INSERT INTO carbrands VALUES (1, "Rolls Royce", 95000000, '2018-02-23', 'RR Phantom 8');
5. ALTER TABLE carbrands CHANGE company parent_company VARCHAR(20);
6. INSERT INTO carbrands VALUES (2, "Porsche", 169000000, '2024-01-29', 'Volks Wagon', 'Macan Turbo EV');
7. INSERT INTO carbrands VALUES (3, "Jaguar", 7290000, '2021-06-10', 'TATA MOTORS', 'F - Pace');
8. INSERT INTO carbrands VALUES (4, "Datsun", 651000, '2013-07-15', 'Nissan', 'GO T(O) CVT'),(5, "Lexus", 282000, '2022-12-23', 'Toyota', 'LX 500d');

```
mysql> SELECT * FROM carbrands;
```

id	name	Ex_showroom_price	launch_date	parent_company	model
1	Rolls Royce	95000000	2018-02-23	BMW	RR Phantom 8
2	Porsche	169000000	2024-01-29	Volks Wagon	Macan Turbo EV
3	Jaguar	7290000	2021-06-10	TATA MOTORS	F - Pace
4	Datsun	651000	2013-07-15	Nissan	GO T(O) CVT
5	Lexus	282000	2022-12-23	Toyota	LX 500d

```
5 rows in set (0.00 sec)
```

9. CREATE TABLE students(id int PRIMARY KEY NOT NULL AUTO_INCREMENT, s_name VARCHAR(100), email VARCHAR(255) UNIQUE NOT NULL, DOB DATE, registration_date DATE, course_id int DEFAULT NULL)
10. ALTER TABLE students ADD CONSTRAINT check_email CHECK (email LIKE '%_@_%._%');
11. INSERT INTO students (s_name, email, DOB, registration_date, course_id) VALUES ("Payal", 'payalojha888@gmail.com', '2004-06-03', '2022-09-15', 101);
12. INSERT INTO students (s_name, email, DOB, registration_date, course_id) VALUES ("Muskan", 'muskandadhich14@gmail.com', '2003-12-14', '2022-09-20', 102), ("Krrish",

Hotwax Training

Assignment : Day 3

'kn011@gmail.com', '2005-09-01', '2022-09-14', 103), ("Sakshi",
'misssakshisoni2003@gmail.com', '2003-05-23', '2022-08-30', 104);

```
mysql> SELECT * FROM students;
```

id	s_name	email	DOB	registration_date	course_id
1	Payal	payalojha888@gmail.com	2004-06-03	2022-09-15	101
2	Muskan	muskandadhich14@gmail.com	2003-12-14	2022-09-20	102
3	Krrish	kn011@gmail.com	2005-09-01	2022-09-14	103
4	Sakshi	misssakshisoni2003@gmail.com	2003-05-23	2022-08-30	104

```
4 rows in set (0.01 sec)
```

13. CREATE TABLE courses (course_id int PRIMARY KEY NOT NULL, course_name VARCHAR(255), course_price INT, course_duration VARCHAR(20));

14. INSERT INTO courses (course_id, course_name, course_price, course_duration) VALUES (101, 'Full Stack Web Developer', 25000, '1 year'), (102, 'MERN Stack Developer', 27000, '1.3 years'), (103, 'Full Stack Java Developer', 29000, '11 months'), (104, 'MEAN Stack Developer', 28000, '1 year');

```
mysql> SELECT * FROM courses;
```

course_id	course_name	course_price	course_duration
101	Full Stack Web Developer	25000	1 year
102	MERN Stack Developer	27000	1.3 years
103	Full Stack Java Developer	29000	11 months
104	MEAN Stack Developer	28000	1 year

```
4 rows in set (0.01 sec)
```

15. ALTER TABLE students ADD COLUMN isMember boolean DEFAULT 0;

Hotwax Training

Assignment : Day 3

```
mysql> DESCRIBE students;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id     | int  | NO   | PRI | NULL    | auto_increment |
| s_name | varchar(100) | YES |     | NULL    |                |
| email  | varchar(255) | NO   | UNI | NULL    |                |
| DOB    | date  | YES  |     | NULL    |                |
| registration_date | date  | YES  |     | NULL    |                |
| course_id | int  | YES  |     | NULL    |                |
| isMember | tinyint(1) | YES  |     | 0       |                |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.01 sec)
```

16. ALTER TABLE students ADD CONSTRAINT FOREIGN KEY(course_id) REFERENCES courses(course_id);

17. INSERT INTO students (id, s_name, email, DOB, registration_date, course_id, isMember) VALUES (5, 'Rupali', 'roop12@gmail.com', '2002-12-17', '2020-07-12', 103, 1);

```
mysql> SELECT * FROM students;
+-----+-----+-----+-----+-----+-----+
| id | s_name | email | DOB | registration_date | course_id | isMember |
+-----+-----+-----+-----+-----+-----+
| 1 | Payal | payalojha888@gmail.com | 2004-06-03 | 2022-09-15 | 101 | 0 |
| 2 | Muskan | muskandadhich14@gmail.com | 2003-12-14 | 2022-09-20 | 102 | 0 |
| 3 | Krrish | kn011@gmail.com | 2005-09-01 | 2022-09-14 | 103 | 0 |
| 4 | Sakshi | missakshisoni2003@gmail.com | 2003-05-23 | 2022-08-30 | 104 | 0 |
| 5 | Rupali | roop12@gmail.com | 2002-12-17 | 2020-07-12 | 103 | 1 |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

18. CREATE TABLE teachers(id int primary key auto_increment, name varchar(100), phone_number varchar(10), email varchar(255) UNIQUE, sub_id INT, dept_id int, isIdCardIssued enum('Yes', 'No') Default 'No');

19. CREATE TABLE departments (dept_id int primary key auto_increment, dept_name varchar(200));

20. INSERT INTO departments (dept_id, dept_name) VALUES (1001, 'IT'), (1002, 'CSE'), (1003, 'Civil'), (1004, 'Mechanical'), (1005, 'Robotics'), (1006, 'Electronics');

21. INSERT INTO teachers (id, name, phone_number, email, sub_id, dept_id, isIdcardIssued) VALUES (1, 'Suresh', '5762387849', 'suresh@gmail.com', 501, 1003, 'No');

Hotwax Training

Assignment : Day 3

```
mysql> select * from teachers;
+-----+-----+-----+-----+-----+-----+-----+
| id | name | phone_number | email | sub_id | dept_id | isIdCardIssued |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | Suresh | 5762387849 | suresh@gmail.com | 501 | 1003 | No |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select * from departments;
+-----+-----+
| dept_id | dept_name |
+-----+-----+
| 1001 | IT |
| 1002 | CSE |
| 1003 | Civil |
| 1004 | Mechanical |
| 1005 | Robotics |
| 1006 | Electronics |
+-----+-----+
6 rows in set (0.00 sec)
```

22. **CREATE TABLE** subjects(sub_id int primary key auto_increment, sub_name varchar(100), teacher_id int, dept_id int not null, FOREIGN KEY(teacher_id) REFERENCES teachers(id));

23. **INSERT INTO** subjects VALUES (501, 'Basic Civil Engineering', 1, 1003);

```
mysql> select * from subjects;
+-----+-----+-----+-----+
| sub_id | sub_name | teacher_id | dept_id |
+-----+-----+-----+-----+
| 501 | Basic Civil Engineering | 1 | 1003 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

24. **ALTER TABLE** students **RENAME** IndianStudents;

Hotwax Training

Assignment : Day 3

```
mysql> select * from students;
ERROR 1146 (42S02): Table 'test.students' doesn't exist
mysql> select * from IndianStudents;
```

id	s_name	email	DOB	registration_date	course_id	isMember
1	Payal	payalojha888@gmail.com	2004-06-03	2022-09-15	101	0
2	Muskan	muskandadhich14@gmail.com	2003-12-14	2022-09-20	102	0
3	Krrish	kn011@gmail.com	2005-09-01	2022-09-14	103	0
4	Sakshi	misssakshisoni2003@gmail.com	2003-05-23	2022-08-30	104	0
5	Rupali	roop12@gmail.com	2002-12-17	2020-07-12	103	1

```
5 rows in set (0.00 sec)
```

25. INSERT INTO teachers (id, name, phone_number, email, sub_id, dept_id, isIdCardIssued) VALUES (2, 'Preeti', '3287344792', 'preetiS234@gmail.com', 502, 1005, 1);

26. INSERT INTO subjects (sub_name, teacher_id, dept_id) VALUES ('Object Oriented Programming', 2, 1002), ('Cryptography', 2, 1005);

```
mysql> select * from subjects;
```

sub_id	sub_name	teacher_id	dept_id
501	Basic Civil Engineering	1	1003
504	Object Oriented Programming	2	1002
505	Cryptography	2	1005

```
3 rows in set (0.00 sec)
```

```
mysql> select * from teachers;
```

id	name	phone_number	email	sub_id	dept_id	isIdCardIssued
1	Suresh	5762387849	suresh@gmail.com	501	1003	No
2	Preeti	3287344792	preetiS234@gmail.com	502	1005	Yes

```
2 rows in set (0.00 sec)
```

Hotwax Training

Assignment : Day 3

27. ALTER TABLE subjects DROP FOREIGN KEY subjects_ibfk_1;

28. ALTER TABLE carbrands DROP COLUMN launch_date;

```
mysql> select * from carbrands;
```

id	name	Ex_showroom_price	parent_company	model
1	Rolls Royce	95000000	BMW	RR Phantom 8
2	Porsche	169000000	Volks Wagon	Macan Turbo EV
3	Jaguar	7290000	TATA MOTORS	F - Pace
4	Datsun	651000	Nissan	GO T(0) CVT
5	Lexus	282000	Toyota	LX 500d

```
5 rows in set (0.00 sec)
```

29. CREATE VIEW member_students AS SELECT id, s_name, email, course_id FROM IndianStudents WHERE isMember=1;

```
mysql> select * from member_students;
```

id	s_name	email	course_id
5	Rupali	roop12@gmail.com	103

```
1 row in set (0.02 sec)
```

30. CREATE VIEW student_view AS SELECT s.id, s.s_name, s.course_id FROM IndianStudents s JOIN courses c WHERE s.course_id=c.course_id;

Hotwax Training

Assignment : Day 3

```
mysql> select * from student_view;
+----+-----+-----+
| id | s_name | course_id |
+----+-----+-----+
| 1  | Payal  | 101       |
| 2  | Muskan | 102       |
| 3  | Krrish | 103       |
| 4  | Sakshi | 104       |
| 5  | Rupali | 103       |
+----+-----+-----+
5 rows in set (0.01 sec)
```

31. **INSERT INTO member_students(id, s_name, email, course_id) VALUES (6, 'POONAM', 'poonam@gmail.com', 102);**

32. **INSERT INTO member_students(id, s_name, email, course_id) VALUES (7, 'Harsh', 'Harsh@gmail.com', 103), (8, 'KEERTI', 'kirti@gmail.com', 102);**

```
mysql> select * from member_students;
+----+-----+-----+-----+
| id | s_name | email                | course_id |
+----+-----+-----+-----+
| 5  | Rupali | roop12@gmail.com    | 103       |
+----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select * from indianstudents;
+----+-----+-----+-----+-----+-----+-----+
| id | s_name | email                | DOB       | registration_date | course_id | isMember |
+----+-----+-----+-----+-----+-----+-----+
| 1  | Payal  | payalojha888@gmail.com | 2004-06-03 | 2022-09-15       | 101       | 0       |
| 2  | Muskan | muskandadhich14@gmail.com | 2003-12-14 | 2022-09-20       | 102       | 0       |
| 3  | Krrish | kn011@gmail.com       | 2005-09-01 | 2022-09-14       | 103       | 0       |
| 4  | Sakshi | missakshisoni2003@gmail.com | 2003-05-23 | 2022-08-30       | 104       | 0       |
| 5  | Rupali | roop12@gmail.com      | 2002-12-17 | 2020-07-12       | 103       | 1       |
| 6  | POONAM | poonam@gmail.com      | NULL      | NULL              | 102       | 0       |
| 7  | Harsh  | Harsh@gmail.com       | NULL      | NULL              | 103       | 0       |
| 8  | KEERTI | kirti@gmail.com       | NULL      | NULL              | 102       | 0       |
+----+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```

33. **CREATE TABLE products(prod_id int primary key, prod_name varchar(255), price int, status enum('Available', 'Unavailable'), remaining_pieces int, shopping_app_id int);**

34. **ALTER TABLE products ADD COLUMN category varchar(100);**

Hotwax Training

Assignment : Day 3

35. **INSERT INTO products (prod_id, prod_name, price, status, remaining_pieces, shopping_app_id) VALUES (121, 'Samsung Galaxy Ultra', 50000, 'Available', 15, 01);**

```
mysql> select * from products;
+-----+-----+-----+-----+-----+-----+-----+
| prod_id | prod_name          | price | status  | remaining_pieces | shopping_app_id | category |
+-----+-----+-----+-----+-----+-----+-----+
|      121 | Samsung Galaxy Ultra | 50000 | Available |             15 |              1 | NULL    |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

36. **CREATE TABLE shoppingapps (shopping_app_id TINYINT(2) primary key, app_name varchar(255));**

37. **INSERT INTO shoppingapps(shopping_app_id, app_name) VALUES (01, 'AMAZON'), (02, 'FLIPKART'), (03, 'MEESHO'), (04, 'MYNTRA'), (05, 'SHOPSY'), (06, 'AJIO'), (07, 'NYKAA'), (08, 'JIOMART'), (09, 'BLINKIT'), (10, 'ZOMATO');**

```
mysql> select * from shoppingapps;
+-----+-----+
| shopping_app_id | app_name |
+-----+-----+
|              1 | AMAZON  |
|              2 | FLIPKART |
|              3 | MEESHO  |
|              4 | MYNTRA  |
|              5 | SHOPSY  |
|              6 | AJIO    |
|              7 | NYKAA   |
|              8 | JIOMART |
|              9 | BLINKIT |
|             10 | ZOMATO  |
+-----+-----+
10 rows in set (0.00 sec)
```

38. **ALTER TABLE shoppingapps MODIFY COLUMN shopping_app_id INT AUTO_INCREMENT;**

Hotwax Training

Assignment : Day 3

```
mysql> DESCRIBE shoppingapps;
```

Field	Type	Null	Key	Default	Extra
shopping_app_id	int	NO	PRI	NULL	auto_increment
app_name	varchar(255)	YES		NULL	

2 rows in set (0.01 sec)

39. INSERT INTO products (prod_id, prod_name, price, status, remaining_pieces, shopping_app_id) VALUES (122, 'LENOVO IDEAPAD GAMING LAPTOP', 60000, 'AVAILABLE', 5, 01);

40. INSERT INTO products (prod_id, prod_name, price, status, remaining_pieces, shopping_app_id, category) VALUES (123, 'TRIVENI ALMIRAH', 25200, 'Unavailable', 00, 03, 'Household Thing');

```
mysql> SELECT * FROM PRODUCTS;
```

prod_id	prod_name	price	status	remaining_pieces	shopping_app_id	category
121	Samsung Galaxy Ultra	50000	Available	15	1	NULL
122	LENOVO IDEAPAD GAMING LAPTOP	60000	Available	5	1	NULL
123	TRIVENI ALMIRAH	25200	Unavailable	0	3	Household Thing

3 rows in set (0.00 sec)

41. CREATE TABLE USERS(userid int primary key auto_increment, username varchar(200), password varchar(8), role varchar(10));

42. INSERT INTO users (username, password, role) VALUES ('payal', 'p@2004', 'Student'), ('sujal', 's@123', 'Manager'), ('Kanha', 'K@011', 'HR'), ('Modak', 'mo@145', 'Admin');

Hotwax Training

Assignment : Day 3

```
mysql> SELECT * FROM users;
```

userid	username	password	role
1	payal	p@2004	Student
2	sujal	s@123	Manager
3	Kanha	K@011	HR
4	Modak	mo@145	Admin

```
4 rows in set (0.00 sec)
```

43. ALTER TABLE users MODIFY COLUMN password VARCHAR(255);

44. ALTER TABLE users ADD CONSTRAINT check_length
CHECK(CHAR_LENGTH(password) >= 8);

45. INSERT INTO users (username, password, role) VALUES ('payal', 'payal@2004', 'Student'), ('sujal', 'sujal@12367', 'Manager'), ('Kanha', 'Kdev@@01341', 'HR'), ('Modak', 'modak@1456', 'Admin');

```
mysql> SELECT * FROM users;
```

userid	username	password	role
1	payal	payal@2004	Student
2	sujal	sujal@12367	Manager
3	Kanha	Kdev@@01341	HR
4	Modak	modak@1456	Admin

```
4 rows in set (0.00 sec)
```

Hotwax Training

Assignment : Day 3

46. DELIMITER //

```
CREATE TRIGGER check_strength
BEFORE INSERT ON users FOR EACH ROW
BEGIN
    IF(CHAR_LENGTH(NEW.PASSWORD) < 8)
        SIGNAL SQLSTATE '45000'
        SET MESSAGE_TEXT = 'Please enter password of atleast 8 length'
    END IF;
END;
//
DELIMITER;
```

```
mysql> DELIMITER // CREATE TRIGGER check_strength BEFORE INSERT ON users FOR EACH ROW BEGIN IF(CHAR_LENGTH(NEW.PASSWORD)
< 8) SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'Please enter password of atleast 8 length' END IF; END; // DELIMITER;
mysql>
```

```
mysql> INSERT INTO users VALUES ('Rohit', 'rohit@2000', 'Assistant_Professor');
-> INSERT INTO users VALUES ('Rohit', 'rohit@2000', 'Assistant_Professor');
->
-> ^C
mysql> INSERT INTO users (username, password, role) VALUES ('Rohit', 'rohit@2000', 'Assistant_Professor');
-> select * from users;
-> ^C
mysql> select * from users;
-> select * from users;
-> ^C
mysql> select * from users;
->
->
->
->
->
->
->
```

47. CREATE TABLE books(id int primary key auto_increment, bookname varchar(255), author varchar(200), edition varchar(20), price int, availableOn varchar(20), language varchar(20));

48. Insert into books VALUES (1, 'To Kill a Mockingbird', 'Harper Lee', 'IV', 250, 'amazon', 'english');

49. INSERT INTO books (bookname, author, edition, price, availableOn, language) VALUES ('Shrimad Bhagavad Gita', 'Ved Vyas Ji', 'latest', 550, 'all shopping apps', 'Sanskrit'),('Feluda Samagra', 'Satyajit Ray', '3.0', 350, 'flipkart and amazon', 'Bengali');

Hotwax Training

Assignment : Day 3

```
mysql> select * from books;
```

id	bookname	author	edition	price	availableOn	language
1	To Kill a Mockingbird	Harper Lee	IV	250	amazon	english
2	Shrimad Bhagavad Gita	Ved Vyas Ji	latest	550	all shopping apps	Sanskrit
3	Feluda Samagra	Satyajit Ray	3.0	350	flipkart and amazon	Bengali

```
3 rows in set (0.01 sec)
```

50. CREATE VIEW lessthan500 AS SELECT id, bookname, author, price FROM books b WHERE price<=500;

```
mysql> select * from lessthan500;
```

id	bookname	author	price
1	To Kill a Mockingbird	Harper Lee	250
3	Feluda Samagra	Satyajit Ray	350

```
2 rows in set (0.01 sec)
```