SQL Code

```sql
1   CREATE DATABASE TEMP3;
2   USE TEMP3;
3   # PLAN OF ACTION
4   # LMS PORTAL
5
6   # STUDENT --> ENROLLMENT <--- COURSE <--- TEACHER
7   # DIMENSION      FACT         SUB - DIMEN   DIMENSION
8   # SNOWFLAKE SCHEMA
9
10  # STUDENT TABLE
11  #VARCHAR text / letters / words store karne ke kaam aata hai SQL database me.
12  #Isme length fixed nahi hoti, jitna text doge utni hi space lega.
13  CREATE TABLE STUDENT(
14      STUDENT_ID INT PRIMARY KEY auto_increment,
15      NAME VARCHAR(50) NOT NULL,
16      EMAIL VARCHAR(50) UNIQUE,
17      AGE INT UNSIGNED
18      );
19
20  # TEACHER TABLE
21  CREATE TABLE TEACHER (
22  TEACHER_ID INT PRIMARY KEY auto_increment,
23  TEACHER_NAME VARCHAR(50) NOT NULL,
24  SUBJECT VARCHAR(50));
25  # CTRL + ENTER
26
27  CREATE TABLE COURSE(
28  COURSE_ID INT PRIMARY KEY auto_increment,
29  COURSE_NAME VARCHAR(50),
30  TEACHER_ID INT,
31  FOREIGN KEY (TEACHER_ID) REFERENCES TEACHER(TEACHER_ID)
32  );
33
34  # SEEKING DESCRIPTION
35  DESCRIBE COURSE;
36
37  CREATE TABLE ENROLLMENT(
38  ENROLLMENT_id int PRIMARY KEY AUTO_INCREMENT,
39  STUD_ID INT,
40  COURSE_ID INT,
41  FOREIGN KEY (STUD_ID) REFERENCES STUDENT(STUDENT_ID),
42  FOREIGN KEY (COURSE_ID) REFERENCES COURSE(COURSE_ID));
43
44  # ALTER TABLE COMMAND USED TO CHANGE THE STRUCTURE OF THE TABLE
45
46  # ADD COLUMN
47  ALTER TABLE STUDENT
48  ADD COLUMN PHONE VARCHAR(12);
49
50  # MULTIPLE
51  ALTER TABLE STUDENT
52  ADD COLUMN (PARENT_EMAIL VARCHAR(50),GENDER VARCHAR(10));
```

```sql
53
54   # DROP COLUMN
55   ALTER TABLE STUDENT
56   DROP COLUMN PARENT_EMAIL;
57
58   # DTYPE / LENGTH/ CONSTRAINTS ADD
59   ALTER TABLE STUDENT
60   MODIFY NAME VARCHAR(100) NOT NULL;
61   ALTER TABLE STUDENT
62   MODIFY AGE TINYINT UNSIGNED DEFAULT 18;
63
64   DESCRIBE STUDENT;
65   # RENAME
66   ALTER TABLE STUDENT
67   RENAME COLUMN NAME TO STUD_NAME;
68
69   # PRIMARY KEY
70   # FOREIGN KEY
71   # CHECK CONSTRAINTS
72   ALTER TABLE STUDENT
73   ADD CONSTRAINT CHK_AGE CHECK (AGE>=18);
74   DESCRIBE STUDENT;
```