

1) Creating Database "Student_Management_System":-

```
create database Student_Management_System;
```

2)Creating Student table:-

```
CREATE TABLE Student(  
    Student_Reg_Id Varchar(10) Primary Key,  
    Roll_Number int(3) Not Null,  
    First_Name varchar(20) Not Null,  
    Middle_Name varchar(20),  
    Last_Name varchar(20),  
    Email_Id_Primary varchar(20),  
    Email_Id_Secondary varchar(20),  
    Mobile_number int(14) Not Null,  
    Telephone_Number int(14) Not Null,  
    Password varchar(20) Not Null,  
    Date_Of_Birth Date Not Null,  
    Registration_Start_Date DateTime Not Null,  
    Registration_End_Date DateTime,  
    Class_Current int(2) Not Null,  
    Class_Admission int(2),  
    Section_Id varchar(2),  
    Gender varchar(10) Not Null,  
    Transport_Reg_Number varchar(10),  
    Add_House_Number varchar(50),  
    Add_Area varchar(50),  
    Add_City varchar(50) Not Null,  
    Add_District varchar(50) Not Null,  
    Add_Pin_Code int(10) Not Null,  
    Add_State Varchar(20) Not Null,  
    Add_Country Varchar(20) Not Null  
);
```

26)Creating Table Teacher:-

```
CREATE TABLE Teacher(  
    Teacher_Reg_Id    varchar(10)    Primary Key,  
    Password varchar(20) Not Null,  
    First_Name varchar(20) Not Null,  
    Middle_Name varchar(20),  
    Last_Name varchar(20),  
    Email_Id_Primary varchar(20) Not Null,  
    Email_Id_Secondary varchar(20),  
    Mobile_Number int(14) Not Null,  
    Gender varchar(8) Not Null,  
    Date_Of_Birth Date,  
    Registration_Start_Date  DateTime Not Null,  
    Registration_End_Date DateTime,  
    Primary_Subject    varchar(10)    Not Null,  
    Secondary_Subject_1    varchar(10),  
    Secondary_Subject_2    Varchar(10)  
);
```

3)Creating Student_Attendance table:-

```
CREATE TABLE Student_Attendance(  
    Student_Reg_id    varchar(10),  
    Foreign Key(Student_Reg_id) REFERENCES Student(Student_Reg_id),  
    Class int(2) Not Null,  
    Date Date Not Null,  
    fStatus int(1) Not Null,  
    Teacher_Reg_id varchar(10),  
    Foreign Key(Teacher_Reg_id) REFERENCES Teacher(Teacher_Reg_id)  
);
```

4)Creating Student_Assignment table:-

```
CREATE TABLE Student_Assignment(  
    Assignment_Id varchar(10) Primary Key,  
    Teacher_Reg_id varchar(10),  
    Foreign Key (Teacher_Reg_id) REFERENCES Teacher(Teacher_Reg_id),  
    Class int(2) Not Null,  
    Section   varchar(2),  
    Subject   varchar(20) Not Null,  
    Assignment_detail  varchar(1000) Not Null,  
    Assignment_Date    DateTime Not Null,  
    Assignment__Submission_Date    DateTime Not Null  
);
```

5)Creating Download table:-

```
CREATE TABLE Download(  
    Download_Id  varchar(10)   Primary Key,  
    Teacher_Reg_Id    varchar(10),  
    Foreign Key (Teacher_Reg_Id) REFERENCES Teacher(Teacher_Reg_Id),  
    Student_Reg_Id    varchar(10),  
    Foreign Key (Student_Reg_Id) REFERENCES Student(Student_Reg_Id),  
    Class int(2) Not Null,  
    Subject   varchar(20)   Not Null,  
    Assignment_detail varchar(20) Not Null,  
    Assignment_Date    DateTime Not Null,  
    Assignment__Submission_Date    DateTime Not Null  
);
```

6)Creating Student_Academic_Calendar table:-

```
CREATE TABLE Student_Academic_Calendar(  
    Year int(4) not null,
```

```
Date_Of_Event datetime not null,  
Class int(2) not null,  
Section varchar(2),  
Event_Name varchar(10) not null,  
Event_Description varchar(50)  
);
```

7)Creating Fee_Payment_Details table:-

```
CREATE TABLE Fee_Payment_Details(  
    Payment_Id varchar(15) Primary Key,  
    Student_Reg_Id varchar(10),  
    Foreign Key (Student_Reg_Id) REFERENCES Student (Student_Reg_Id),  
    Month varchar(10) Not Null,  
    Payment_Date Date Not Null,  
    Payment_Amount int(8) Not Null,  
    Mode_Of_Payment varchar(8) Not Null,  
    Note varchar(50)  
);
```

8) Creating Librarian table:-

```
CREATE table Librarian(  
    Librarian_Reg_Id varchar(10) PRIMARY key not null,  
    Password varchar(20) Not Null,  
    First_Name varchar(20) Not Null,  
    Middle_Name varchar(20),  
    Last_Name varchar(20),  
    Email_Id_Primary varchar(20) Not Null,  
    Email_Id_Secondary varchar(20),  
    Mobile_Number Integer(14) Not Null,  
    Gender varchar(10) Not Null,  
    Date_Of_Birth Date,  
    Registration_Start_Date DateTime Not Null,
```

```
Registration_End_Date    DateTime
);
```

9)Creating table Librarian_Academic_Calendar:-

```
CREATE table Librarian_Academic_Calendar(
    Year int(4)    Not Null,
    Event_Name varchar(10) Not Null,
    Date_of_Event DateTime Not Null,
    Event_Description varchar(250)
);
```

10)Creating table Book_Registration:-

```
CREATE table Book_Registration(
    Book_id  Varchar(10) Primary Key,
    Book_Name Varchar(15) Not Null,
    Book_Author  Varchar(20)    Not Null,
    Published_Year Date,
    Price int(5) Not Null,
    Date DateTime Not Null,
    Detail_description varchar(20),
    Category varchar(10) Not Null,
    Fine_Amount_lost Integer Not Null,
    Fine_Amount_perday Integer Not Null,
    Status varchar(10) Not Null,
    Return_day int(1) Not Null
);
```

11)Creating Book_Issue table:-

```
CREATE TABLE Book_Issue(
    Book_Issue_Id varchar(10) Primary Key,
    Student_Reg_Id varchar(10),
    Foreign Key (Student_Reg_Id) REFERENCES Student(Student_Reg_Id),
```

```

Librarian_Reg_Id varchar(10),
Foreign Key (Librarian_Reg_Id) REFERENCES Librarian(Librarian_Reg_Id),
Date_of_issue DateTime Not Null,
Date_of_Submission DateTime,
Book_Id Varchar(10),
Foreign Key (Book_Id) REFERENCES Book_Registration(Book_Id),
Issue_Status varchar(10) Not Null,
Fine_amount_collected int(5)
);

```

12)Creating Table Bus_Registration:-

```

CREATE TABLE Bus_Registration(
    Bus_Reg_Id varchar(15) Primary Key,
    Date_of_Registration DateTime Not Null,
    End_Date_of_Service DateTime,
    Mrng_Source varchar(20) Not Null,
    Mrng_Destination varchar(20) Not Null,
    Mrng_Route varchar(100) Not Null,
    Mrng_Start_Time Time Not Null,
    Mrng_Route_time Time Not Null,
    Mrng_End_Time Time Not Null,
    Evng_Source varchar(20) Not Null,
    Evng_Destination varchar(20) Not Null,
    Evng_Route varchar(100) Not Null,
    Evng_Start_Time Time Not Null,
    Evng_Route_Time Time Not Null,
    Evng_End_Time Time Not Null,
    Total_Seat int(3) Not Null,
    Available_Seat int(3) Not Null,
    Driver_Name varchar(20) Not Null,
    Driver_Mobile_Number int(14) Not Null,
    Conductor_Name varchar(20) Not Null,
    Conductor_Mobile_Number int(14) Not Null

```

);

13)Creating Student_Transport_Registration table:-

```
CREATE TABLE Student_Transport_Registration(  
    Transport_Reg_Id varchar(10) Primary Key,  
    Bus_Reg_Id varchar(15),  
    Foreign Key (Bus_Reg_Id) REFERENCES Bus_Registration(Bus_Reg_Id),  
    Monthly_Fee_Amount int(5) Not Null,  
    Pickup_Point varchar(15) Not Null,  
    Status varchar(8)  
);
```

14)Adding Foreign key "Transport_Reg_Number" after creation of parent table "Student_Transport_Registration table":-

```
Alter table Student  
add foreign key (Transport_Reg_Number) REFERENCES  
Student_Transport_Registration (Transport_Reg_Id) ;
```

15)Creating Student_Transport_Fee table:-

```
CREATE TABLE Student_Transport_Fee(  
    Transport_Payment_Id varchar(10) Primary Key,  
    Transport_Reg_Id varchar(10),  
    Foreign Key (Transport_Reg_Id) REFERENCES Student_Transport_Registration(Transport_Reg_Id),  
    Month varchar(10) Not Null,  
    Payment_Date DateTime Not Null,  
    Payment_Amount int(5) Not Null,  
    Mode_Of_Payment varchar(5) Not Null  
);
```

16)Creating table Transport_Academic_Calendar:-

```
CREATE TABLE Transport_Academic_Calendar(
    Year int(4)      Not Null,
    Event_Name varchar(10) Not Null,
    Date_of_Event DateTime Not Null,
    Description varchar(250)
);
```

17)Creating table Admin_Table:-

```
CREATE TABLE Admin_Table(
    Admin_Reg_Id varchar(10) Primary Key,
    Password varchar(20) Not Null,
    First_Name varchar(20) Not Null,
    Middle_Name varchar(20),
    Last_Name varchar(20),
    Email_Id_Primary varchar(20) Not Null,
    Email_Id_Secondary varchar(20),
    Mobile_Number int(14) Not Null,
    Gender varchar(8) Not Null,
    Date_Of_Birth Date,
    Registration_Start_Date DateTime Not Null,
    Registration_End_Date DateTime
);
```

18)Creating Class_Fees_Structure table:-

```
CREATE TABLE Class_Fees_Structure(
    Class int(2) Not Null,
    Fees int(5) Not Null,
    Date Date Not Null,
    Admin_Reg_Id varchar(20),
    Foreign Key (Admin_Reg_Id) REFERENCES Admin_Table(Admin_Reg_Id)
```


);

19)Creating Bus_Fees_Structure table:-

```
CREATE TABLE Bus_Fees_Structure(  
    Bus_Reg_Id varchar(10),  
    Foreign Key (Bus_Reg_Id) REFERENCES Bus_Registration(Bus_Reg_Id),  
    Fees int(5) Not Null,  
    Date Date,  
    Admin_Reg_Id varchar(10),  
    Foreign Key (Admin_Reg_Id) REFERENCES Admin_Table(Admin_Reg_Id),  
    Pickup_Point varchar(20) Not Null  
);
```

20)Creating Teacher_Salary_Structure table:-

```
CREATE TABLE Teacher_Salary_Structure(  
    Teacher_Reg_Id varchar(10),  
    Foreign Key (Teacher_Reg_Id) REFERENCES Teacher(Teacher_Reg_Id),  
    Salary int(8) Not Null,  
    Date Date Not Null,  
    Admin_Reg_Id varchar(10),  
    Foreign Key (Admin_Reg_Id) REFERENCES Admin_Table(Admin_Reg_Id)  
);
```

21)Creating Subject_Table table:-

```
CREATE TABLE Subject_Table(  
    Subject_Id int(3) Primary Key,  
    Subject_Name varchar(10) Not Null,  
    Teacher_Reg_Id varchar(10),  
    Foreign Key (Teacher_Reg_Id) REFERENCES Teacher(Teacher_Reg_Id),  
    Class int(2) Not Null,
```

```
Year int(5) Not Null  
);
```

22)Creating Result_Table table:-

```
CREATE TABLE Result_Table(  
    Result_Id varchar(10) Primary Key,  
    Student_Reg_Id    varchar(10),  
    Foreign Key (Student_Reg_Id) REFERENCES Student(Student_Reg_Id),  
    Admin_Reg_Id varchar(10),  
    Foreign key (Admin_Reg_Id) REFERENCES Admin_Table(Admin_Reg_Id),  
    Class int(2) Not Null,  
    Section    varchar(2),  
    Year int(5) Not Null  
);
```

23)Creating Marks_Table table:-

```
CREATE TABLE Marks_Table(  
    Result_Id varchar(10) Primary Key,  
    Marks_1  varchar(10) Not Null,  
    Marks_2  varchar(10)    Not Null,  
    Marks_3  varchar(10)    Not Null,  
    Marks_4  Varchar(10)    Not Null,  
    Marks_5  Varchar(10)    Not Null,  
    Marks_6  Varchar(10),  
    Marks_7  Varchar(10),  
    Marks_8  Varchar(10),  
    Marks_9  Varchar(10),  
    Marks_10 Varchar(10),  
    Marks_11 Varchar(10),  
    Marks_12 Varchar(10),  
    Marks_13 Varchar(10),
```

```
Marks_14 Varchar(10),  
Marks_15 Varchar(10)  
);
```

24)Creating Feedback table:-

```
CREATE TABLE Feedback(  
    Student_Reg_Id varChar(10),  
    Foreign Key (Student_Reg_Id) REFERENCES Student(Student_Reg_Id),  
    Teacher_Reg_Id varchar(10),  
    Foreign Key (Teacher_Reg_Id) REFERENCES Teacher(Teacher_Reg_Id),  
    Bus_Reg_Id varchar(10),  
    Foreign Key (Bus_Reg_Id) REFERENCES Bus_Registration(Bus_Reg_Id),  
    Librarian_Reg_Id varchar(10),  
    Foreign Key (Librarian_Reg_Id) REFERENCES Librarian(Librarian_Reg_Id),  
    Feedback varchar(200) Not Null  
);
```

25)Creating TABLE Admin_Academic_Calender:-

```
CREATE TABLE Admin_Academic_Calender(  
    Year int(4) Not Null,  
    Event_Name varchar(10) Not Null,  
    Date_Of_Event DateTime Not Null,  
    Description    varchar(250)  
);
```

27)Creating Teacher_Salary table:-

```
CREATE TABLE Teacher_Salary(  
    Teacher_Reg_Id varchar(10),  
    Foreign Key (Teacher_Reg_Id) REFERENCES Teacher(Teacher_Reg_Id),  
    Salary_Month varchar(10) Not Null,
```

```
Salary_Year int(5) Not Null,  
Amount int(8) Not Null,  
Date_Of_Payment Date Not Null,  
Transaction_Number varchar(15) Not Null,  
Mode_Of_Payment varchar(8) Not Null  
);
```

28)Creating table Teacher_Academic_Calender:-

```
CREATE TABLE Teacher_Academic_Calendar(  
Year int(4) Not Null,  
Event_Name varchar(10) Not Null,  
Date_Of_Event DateTime Not Null,  
Description varchar(250)  
);
```