**File name: DDL**

Description : DDL file command to create database with create table and constraints commands.

**Student:**

CREATE TABLE Student

(

student\_id int CONSTRAINT student\_id PRIMARY KEY,

first\_name varchar(40) CONSTRAINT nn\_fname NOT NULL,

last\_name varchar(40) CONSTRAINT nn\_lname NOT NULL,

address varchar(100),

birthdate date,

gender varchar(20),

email varchar(60) UNIQUE

);

**Teacher:**

CREATE TABLE Teacher

(

teacher\_id int CONSTRAINT teacher\_id PRIMARY KEY,

first\_name varchar(40) CONSTRAINT nn\_fname NOT NULL,

last\_name varchar(40) CONSTRAINT nn\_lname NOT NULL,

address varchar(100),

birthdate date,

gender varchar(20),

email varchar(60) UNIQUE

);

**LegalGuardian:**

CREATE TABLE LegalGuardian

(

lguardian\_id int CONSTRAINT lguard\_id PRIMARY KEY,

first\_name varchar(40) CONSTRAINT nn\_fname NOT NULL,

last\_name varchar(40) CONSTRAINT nn\_lname NOT NULL,

address varchar(100),

birthdate date,

gender varchar(20),

phone char(14) UNIQUE

);

**Student\_LegalGuardian:**

CREATE TABLE student\_legalguardian

(

student\_id int,

lguardian\_id int,

CONSTRAINT fk\_lguard\_id Foreign key(lguardian\_id) REFERENCES LegalGuardian (lguardian\_id),

CONSTRAINT fk\_student\_id Foreign key(student\_id) REFERENCES Student(student\_id)

);

**Course:**

CREATE TABLE course

(

courseID int CONSTRAINT course\_id PRIMARY KEY,

teacher\_id int,

courseName varchar(50),

courseSection varchar(50),

courseLocation varchar(50),

CONSTRAINT fk\_teacher\_id Foreign key(teacher\_id) REFERENCES teacher (teacher\_id)

);

**DisciplinaryActions:**

CREATE TABLE DisciplinaryActions

(

IncidentID INT CONSTRAINT incid\_id PRIMARY KEY,

student\_ID int,

Date DATE ,

ActionType VARCHAR(45),

CONSTRAINT fk\_StudentID Foreign key(Student\_ID) REFERENCES student(Student\_ID)

);

**ExtraActivity:**

CREATE TABLE EXTRAACTIVITY

(

ActivityID INT CONSTRAINT activ\_id PRIMARY KEY,

teacher\_ID int,

ActivityName VARCHAR (45),

ActivityType VARCHAR(45),

ClubsName VARCHAR(45),

Room VARCHAR(10),

CONSTRAINT fk\_TeacherID Foreign key(Teacher\_ID) REFERENCES teacher(Teacher\_ID)

);

**HighSchoolPlans:**

CREATE TABLE POSTHIGHSCHOOLPLANS

(

ApplicationID INT CONSTRAINT app\_id PRIMARY KEY,

student\_id int,

ApplicationDate DATE,

CollegeName VARCHAR(45),

ApplicationResult VARCHAR(10),

CONSTRAINT fk\_StudentID Foreign key(Student\_ID) REFERENCES STUDENT(Student\_ID)

);

**Enrollment:**

CREATE TABLE ENROLLMENT

(

student\_id int,

CourseID int,

DateEnrolled DATE,

DateUnenrolled DATE,

AcademicYear varchar(15),

CONSTRAINT fk\_StudentId Foreign key(Student\_ID) REFERENCES Student(Student\_ID),

CONSTRAINT fk\_CourseID Foreign key(CourseID) REFERENCES Course(CourseID)

);

**Grade:**

CREATE TABLE GRADE

(

TestID int CONSTRAINT test\_id PRIMARY KEY,

student\_id int,

courseID int,

TestName VARCHAR(20),

TestDate DATE,

TestResult DECIMAL(5,2),

CONSTRAINT fk\_CourseID Foreign key(CourseID) REFERENCES Course(CourseID),

CONSTRAINT fk\_studentID Foreign key(Student\_ID) REFERENCES Student(Student\_ID)

);

**Student\_Activity:**

CREATE TABLE student\_activity

(

student\_id int,

activityid int,

CONSTRAINT fk\_activity\_id Foreign key(activityid) REFERENCES extraactivity (activityid),

CONSTRAINT fk\_student\_id Foreign key(student\_id) REFERENCES Student(student\_id)

);