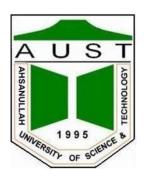
Ahsanullah University of Science and Technology Department of Computer Science and Engineering



Project Name: **Primary School Management**

System

Couse Name: Database Lab

Couse ID: CSE 3104 **Semester:** Fall 2022

Student ID: Student Name

20200104062 Sakib Shahriar Rafi

20200104063 Sourov Roy

20200104087 Easin Arafat

Database Tables:

Table 01: AdminTable

Field	Type	Constraint
adminUsername	Varchar(100)	Default Admin
adminPassword	Varchar(20)	Default Admin
adminPrimaryKey	Composite key	(adminUsername, adminPassword)

Table 02: StudentTable

Field	Туре	Constraint
studentId	Int	Primary key
studentFirstName	Varchar (100)	Not null
studentLastName	Varchar (100)	null
studentAge	Int	Not Null
studentFatherName	Varchar (100)	Not null
studentMotherName	Varchar (100)	Not null
studentParentPhone	Varchar (15)	Not null
studentD0B	Date	Not null
studentBG	Varchar (10)	Null
studentAddress	Varchar (200)	Not null
studentCurentClass	Int	Not null
studentSection	Vatrchar(20)	Not null
studentAdmissionDate	Date	Not null
studentGraduationDate	Date	null
studentUsername	Varchar (100)	null
studentPassword	Varchar (20)	null
isCurrentStudent	BIT	Not null

Table 03: TeacherTable

Туре	Constraint
Int	Primary key
Varchar (100)	Not null
Varchar (100)	null
Int	Not Null
Varchar (100)	Not null
Varchar (15)	Not null
Varchar (200)	Not null
Varchar (10)	null
Varchar (100)	Not null
Money	Not null
Date	Not null
Date	Null
Varchar (100)	Null
Varchar (20)	Null
BIT	Not null
	Int Varchar (100) Varchar (100) Int Varchar (100) Varchar (15) Varchar (200) Varchar (10) Varchar (100) Money Date Date Varchar (100) Varchar (20)

Table 04: StaffTable

Field	Type	Constraint
staffId	Int	Primary key
staffFirstName	Varchar (100)	Not null
staffLastName	Varchar (100)	Null

staffAge	Int	Not null
staffNID	Varchar (100)	Not null
staffPhone	Varchar (15)	Not null
staffAddress	Varchar (200)	Not null
staffBG	Varchar (10)	Null
staffJobDesignation	Varchar (100)	Not null
staffSalary	Money	Not null
staffJoinDate	Date	Not null
staffResignDate	Date	Null
staffUsername	Varchar (100)	Null
staffPassword	Varchar (20)	Null
isCurrentStaff	BIT	Not null

Table 05: GradingSyatem

Field	Туре	Constraint
studentId	Int	Foreign key
teacherId	Int	Foreign key
courseName	Varchar(20)	Not null
examType	Varchar(20)	Not null
obtainedMark	Decimal(5,2)	Not null
currentClass	Int	Not null
isPassedCourse	BIT	Not null

Table 06: FinalGrade

Field	Туре	Constraint
studentId	Int	Foreign key
class1	Varchar(3)	Default null
class2	Varchar(3)	Default null
class3	Varchar(3)	Default null
class4	Varchar(3)	Default null
class5	Varchar(3)	Default null

Table 07: PaymentSystem

Field	Туре	Constraint
accountNo	Varchar(20)	Primary key
studentId	Int	Null foreign key
teacherId	Int	Null foreign key
staffId	Int	Null foreign key
paidAmount	Money	Null
restMoney	Money	Null
penaltyAmount	Money	Null
penaltyType	Varchar(100)	Null

Database Relations:

Relation 01: ControlStudent [AdminTable and StudentTable]

Field	Туре	Constraint
adminPrimaryKey	Composite key	Foreign key
studentId	int	Foreign key

Relation 02: ControlTeacher [AdminTable and TeacherTable]

Field	Туре	Constraint
adminPrimaryKey	Composite key	Foreign key
teacherId	int	Foreign key

Relation 03: ControlStaff [AdminTable and StaffTable]

Field	Туре	Constraint
adminPrimaryKey	Composite key	Foreign key
staffld	int	Foreign key

Relation 04: AdminSeeGrade [AdminTable and GradingSystem]

Field	Туре	Constraint
adminPrimaryKey	Composite key	Foreign key
studentId	int	Foreign key

Relation 05: AdminSeeFinalGrade [AdminTable and FinalGrade]

Field	Туре	Constraint
adminPrimaryKey	Composite key	Foreign key
studentId	int	Foreign key

Relation 06: ControlPayment [AdminTable and PaymentSystem]

Field	Туре	Constraint
adminPrimaryKey	Composite key	Foreign key
accountNo	Varchar (50)	Foreign key

Relation 07: Teach [SrudentTable and TeacherTable]

Field	Туре	Constraint
studentid	Int	Foreign key
teacherId	Int	Foreign key
courseNameGrading	Varchar(50)	Not Null

Relation 07: StudentSeeFinalGrade [StudentTable and FinalGrade]

Field	Туре	Constraint
studentId	Int	Foreign key

Relation 08: StudentPayment [SrudentTable and PaymentSystem]

Туре	Constraint
Int	Foreign key
Varchar(50)	Foreign key
Date	Not Null
Varchar(50)	Not null
Money	Not null
Varchar(100)	Not null
Varchar(20)	Not null
	Int Varchar(50) Date Varchar(50) Money Varchar(100)

Relation 09: Evaluate [TeacherTable and GradingSystem]

Field	Туре	Constraint
teacherId	Int	Foreign key
studentId	Int	Foreign key

Relation 10: TeacherSeeFinalGrade [TeacherTable and FinalGrade]

Field	Туре	Constraint
teacherId	Int	Foreign key
studentId	Int	Foreign key

Relation 11: PayTeacher [TeacherTable and PaymentSystem]

Field	Туре	Constraint
teacherId	Int	Foreign key
accountNo	Varchar(50)	Foreign key
teacherPaymentDate	Date	Not Null
teacherTransactionId	Varchar(50)	Not null
teacherTransactionAmout	Money	Not null
teacherTransactionType	Varchar(100)	Not null
teacherPaymentBy	Varchar(20)	Not null

Relation 12: PayStaff [TeacherTable and PaymentSystem]

Field	Туре	Constraint
staffId	Int	Foreign key
accountNo	Varchar(50)	Foreign key
staffPaymentDate	Date	Not Null
staffTransactionId	Varchar(50)	Not null
staffTransactionAmmout	Money	Not null
staffTransactionType	Varchar(100)	Not null
staffPaymentBy	Varchar(20)	Not null

Entity Relationship Diagram:

