**Lahore Garrison University**



**DATABASE MANAGEMENT SYSTEM**

**Project Report Review**

**Student Record Keeping Software**

**Team Members:**

[Armoghan-ul-Mohmin](https://github.com/Armoghan-ul-Mohmin) (Fa-21/BS DFCS/010)

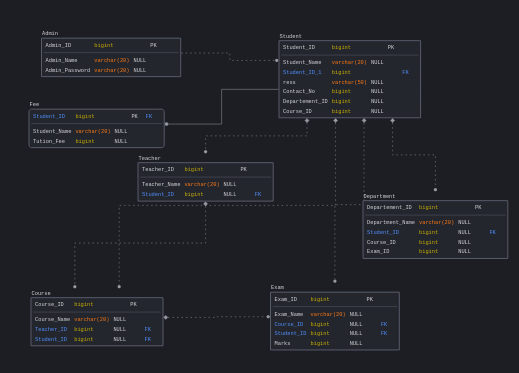
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**Department of Digital Forensics and Cyber Security, LGU**

**ABSTRACT:**

**ER Diagram:**



**Table:**

**Admin**

|  |  |  |
| --- | --- | --- |
| Attribute | Data type | Constraint |
| Admin\_Id | Bigint | Primary Key |
| Admin\_Name | Varchar (20) | None |
| Admin\_Password | Varchar (20) | None |

**Student**

|  |  |  |
| --- | --- | --- |
| Attribute | Data type | Constraint |
| Student\_Name | Varchar (20) | None |
| Student \_Id | Bigint | Foreign Key |
| Roll No | Varchar (20) | None |
| Contant\_No | Bigint | None |
| Department\_Id | Bigint | None |
| Course\_Id | Bigint | None |

Fee

|  |  |  |
| --- | --- | --- |
| Attribute | Data type | Constraint |
| Student\_ID | Bigint | Foreign Key |
| Student\_Name | Varchar(20) | None |
| Tution\_Fee | Bigint | None |

**Teacher**

|  |  |  |
| --- | --- | --- |
| Attribute | Data type | Constraint |
| Teacher\_ID | Bigint |  |
| Teacher\_Name | Varchar(20) |  |
| Student\_ID | Bigint |  |

**Course**

|  |  |  |
| --- | --- | --- |
| Attribute | Data type | Constraint |
| Course\_ID | Bigint |  |
| Course\_Name | Varchar(20) |  |
| Teacher\_ID | Bigint |  |
| Student\_ID | Bigint |  |

**Department**

|  |  |  |
| --- | --- | --- |
| Attribute | Data type | Constraint |
| Departement\_ID | Bigint |  |
| Department\_Name | Varchar(20) |  |
| Student\_ID | Bigint |  |
| Course\_ID | Bigint |  |
| Exam\_ID | Bigint |  |

**Exam**

|  |  |  |
| --- | --- | --- |
| Attribute | Data type | Constraint |
| Exam\_ID | Bigint |  |
| Exam\_Name | Varchar (20) |  |
| Course\_ID | Bigint |  |
| Student\_ID | Bigint |  |
| Marks | Bigint |  |

**Code**

Create Database Project;

Use Project;

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-- Table Structure for Administartor Table.

Create TABLE Admin (

Admin\_ID BIGINT,

Admin\_Name VARCHAR(20),

Admin\_Password VARCHAR(20)

);

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-- Table Structure for Student Table.

Create Table Student (

Student\_ID BIGINT,

Student\_Name VARCHAR(20),

Address VARCHAR(50),

Contact\_No BIGINT,

Departement\_ID BIGINT,

Course\_ID BIGINT

);

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-- Table Structure for Fee Table.

Create Table Fee(

Student\_ID BIGINT,

Student\_Name VARCHAR(20),

Tution\_Fee BIGINT

);

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-- Table Structure for Teacher Table.

Create Table Teacher(

Teacher\_ID BIGINT,

Teacher\_Name VARCHAR(20),

Student\_ID BIGINT

);

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-- Table Structure for Course Table.

Create Table Course(

Course\_ID BIGINT,

Course\_Name VARCHAR(20),

Teacher\_ID BIGINT,

Student\_ID BIGINT

);

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-- Table Structure for Department Table.

Create Table Department(

Departement\_ID BIGINT,

Department\_Name VARCHAR(20),

Student\_ID BIGINT,

Course\_ID BIGINT,

Exam\_ID BIGINT

);

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-- Table Structure for Exam Table.

Create Table Exam(

Exam\_ID BIGINT,

Exam\_Name VARCHAR(20),

Course\_ID BIGINT,

Student\_ID BIGINT,

Marks BIGINT

);

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-- Declaring Primary Key For Administartor Table

Alter TABLE Administartor

ADD CONSTRAINT PK\_Administartor PRIMARY Key (Admin\_ID)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-- Declaring Primary Key For Student Table

Alter TABLE Student

ADD CONSTRAINT PK\_Student PRIMARY Key (Student\_ID)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-- Declaring Primary Key For Department Table

Alter TABLE Department

ADD CONSTRAINT PK\_Department PRIMARY Key (Department\_ID)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-- Declaring Primary Key For Course Table

Alter TABLE Coures

ADD CONSTRAINT PK\_Course PRIMARY Key (Course\_ID)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-- Declaring Primary Key For Teacher Table

Alter TABLE Teacher

ADD CONSTRAINT PK\_Teacher PRIMARY Key (Teacher\_ID)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-- Declaring Primary Key For Exam Table

Alter TABLE Exam

ADD CONSTRAINT PK\_Exam PRIMARY Key Exam \_ID)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-- Declaring Foreign Key For Student Table

Alter TABLE Student

CONSTRAINT fk\_Department\_ID FOREIGN KEY (Department\_ID)

REFERENCES Department(Department\_ID)

Alter TABLE Student

CONSTRAINT fk\_Course\_ID FOREIGN KEY (Course\_ID)

REFERENCES Coures(Course\_ID)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-- Declaring Foreign Key For Teacher Table

Alter TABLE Teacher

CONSTRAINT fk\_Student\_ID FOREIGN KEY (Student\_ID)

REFERENCES Student(Student\_ID)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-- Declaring Foreign Key For Coursr Table

Alter TABLE Coures

CONSTRAINT fk\_Teacher\_ID FOREIGN KEY (Teacher\_ID)

REFERENCES Teacher(Teacher\_ID)

Alter TABLE Coures

CONSTRAINT fk\_Student\_ID FOREIGN KEY (Student\_ID)

REFERENCES Student (Student\_ID)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-- Declaring Foreign Key For Department Table

Alter TABLE Department

CONSTRAINT fk\_Student\_ID FOREIGN KEY (Student\_ID)

REFERENCES Student(Student\_ID)

Alter TABLE Teacher

CONSTRAINT fk\_Course\_ID FOREIGN KEY (Course\_ID)

REFERENCES Course(Course\_ID)

Alter TABLE Teacher

CONSTRAINT fk\_Exam\_ID FOREIGN KEY (Exam\_ID)

REFERENCES Exam(Exam\_ID)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-- Declaring Foreign Key For Exam Table

Alter TABLE Exam

CONSTRAINT fk\_Course\_ID FOREIGN KEY (Course\_ID)

REFERENCES Course(Course\_ID)

Alter TABLE Exam

CONSTRAINT fk\_Student\_ID FOREIGN KEY (Student\_ID)

REFERENCES Student (Student\_ID)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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