**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)

Aftab Hussain (Fa-21/BS DFCS/033)

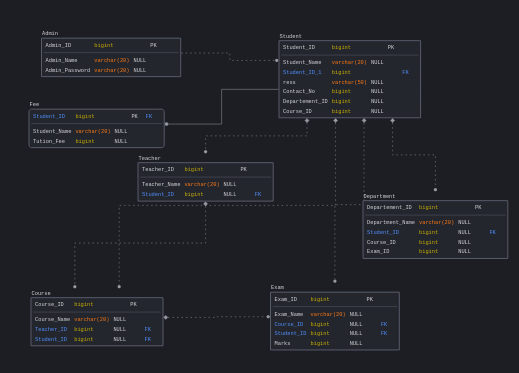
**Under the Guidance of: Imran Khalid & Saud Farooq**

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

**ABSTRACT:**

This project is basically creating a database management system for Student Record Keeping Software. Aim of the project is to creating a backend program of the processes taking place using SQL. This model deals with the relationship between Students, Teachers, Departments, and Exams. The other entities play a supportive weak role. So basically this helps the Students , Teachers and University to keep records .

**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 | Foreign Key |
| Teacher\_Name | Varchar(20) | None |
| Student\_ID | Bigint | Foreign Key |

**Course**

|  |  |  |
| --- | --- | --- |
| Attribute | Data type | Constraint |
| Course\_ID | Bigint | Primary Key |
| Course\_Name | Varchar(20) | None |
| Teacher\_ID | Bigint | Foreign Key |
| Student\_ID | Bigint | Foreign Key |

**Department**

|  |  |  |
| --- | --- | --- |
| Attribute | Data type | Constraint |
| Departement\_ID | Bigint | Primary Key |
| Department\_Name | Varchar(20) | None |
| Student\_ID | Bigint | Foreign Key |
| Course\_ID | Bigint | Primary Key |
| Exam\_ID | Bigint | Primary Key |

**Exam**

|  |  |  |
| --- | --- | --- |
| Attribute | Data type | Constraint |
| Exam\_ID | Bigint | Primary Key |
| Exam\_Name | Varchar (20) | None |
| Course\_ID | Bigint | Primary Key |
| Student\_ID | Bigint | Foreign Key |
| Marks | Bigint | None |

**Code # Student Record Keeping Software**

**### <p align="center">** *\*Department of Digital Forensics and Cyber Security, LGU\** **</p>**

**####  <p align="center"> \*\*Under the Guidance of: Imran Khalid & Saud Farooq\*\* </p>**

**### \*\*Team Members:\*\***

  \* Armoghan-Ul-Mohmin (Fa-21/BS DFCS/010)

  \* Aftab Hussain  (Fa-21/BS DFCS/033)

**### \*\*ABSTRACT:\*\***

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**### \*\*Er Diagram:\*\***

<p align="center">

  <img src="/Er-Diagram/Er Diagram (Dark).png"  title="Er Diagram(Dark)">

</p>

**### \*\*Tables:\*\***

1. Admin <br>

2. Student <br>

3. Fee <br>

4. Department <br>

5. Course <br>

6. Teacher <br>

7. Exam <br>

**### \*\*Attributes:\*\***

  Admin Table

     | Admin\_Id | Student\_Id   | Student\_Name    | Student\_Password  |

     | -------- | ------------ |--------------   |-------------------|

     |          |              |                 |                   |

     |          |              |                 |                   |

     |          |              |                 |                   |

<br>

  Student Table

     |Student\_Id | Student\_Name | Address | Contact\_No | Department\_ID | Course\_ID|

     |-----------|------------|---------|------------|---------------|----------|

     |           |            |         |            |               |          |

     |           |            |         |            |               |          |

     |           |            |         |            |               |          |

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  Teacher Table

       | Teacher\_ID | Teacher\_Name | Student\_Id |

       |------------|--------------|------------|

       |            |              |            |

       |            |              |            |

       |            |              |            |

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  Course Table

       | Course\_ID | Course\_Name | Teacher\_ID | Student\_Id |

       |-----------|-------------|------------|------------|

       |           |             |            |            |

       |           |             |            |            |

       |           |             |            |            |

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  Department Table

       | Department\_ID | Department\_Name | Course\_ID  | Exam\_ID   |

       |---------------|-----------------|------------|-----------|

       |               |                 |            |           |

       |               |                 |            |           |

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  Exam Table

       | Exam\_ID | Exam\_Name | Course\_ID | Student\_Id | Marks |

       |---------|-----------|-----------|------------|-------|

       |         |           |           |            |       |

       |         |           |           |            |       |

       |         |           |           |            |       |

<br>

  Fee Table

       |Challan\_No | Student\_Id | Student\_Name | Tution\_Fee |

       |-----------|------------|--------------|------------|

       |           |            |              |            |

       |           |            |              |            |

       |           |            |              |            |

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**### \*\*Code:\*\***

- <a href="main.sql">Student Record Keeping System</a>

- <a href="/Docs/Tables.sql">Tables</a>

- <a href="/Docs/Primary Keys.sql">Primary Keys</a>

- <a href="/Docs/Foreign Keys.sql">Foreign Keys</a>

- <a href="/Docs/Dumping Values.sql">Values</a>

- <a href="/Docs/Creating View.sql">Views</a>

**### \*\*Normalization:\*\***