**1.ERD Diagram (Textual Representation)**

Entities:

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School [SchoolID, Name, Location, NUmberOfClassroom]

Teachers [TeachersID, Name, SchoolID(FK), Qualification, YearOfExperience, SubjectTaught]

Students[StudentID, Name, SchoolID, Grade, PerformanceScore]

Resources [ResourceID, SchoolID(FK), Type, Quantity]

### 2.Graphical Representation

|  |
| --- |
| Schools |
| SchoolID int |
| Name varchar() |
| Location varchar() |
| NnmberOfClassroom |
| InternetAccess |

|  |
| --- |
| Teachers |
| TeacherID int |
| Name varchar |
| SchoolID(FK) |
| Qualification |
| YearOfExperiences int |
| SubjectTaught varchar() |
|  |



|  |
| --- |
| Students |
| StudentID int |
| Name int |
| SchoolID(FK) Int |
| Grade varchar() |
| PerformancesSore Float |
|  |

|  |
| --- |
| Resources |
| ResourceID int |
| SchoolID(FK) int |
| Type varchar() |
| Quantity int |
|  |

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**Explanation:**



* **Schools**: This is an associative entity that resolves the many-to-many relationship between teachers, students and resources
* **student**: This entity tracks each student location, performance in school and their grade

**Relationships**

1. **students**
   * Relationship: Many-to-Many (A student can have multiple teachers, and can use multiple resources, and )
     + SchoolID (Foreign Key)
2. **teachers**
   * Relationship: One-to-Many (A teacher can have many students an can be in more than one school)
   * Foreign Key: SchoolID
3. **resources**
   * Relationship: One-to-Many (A student can use multiple resources)