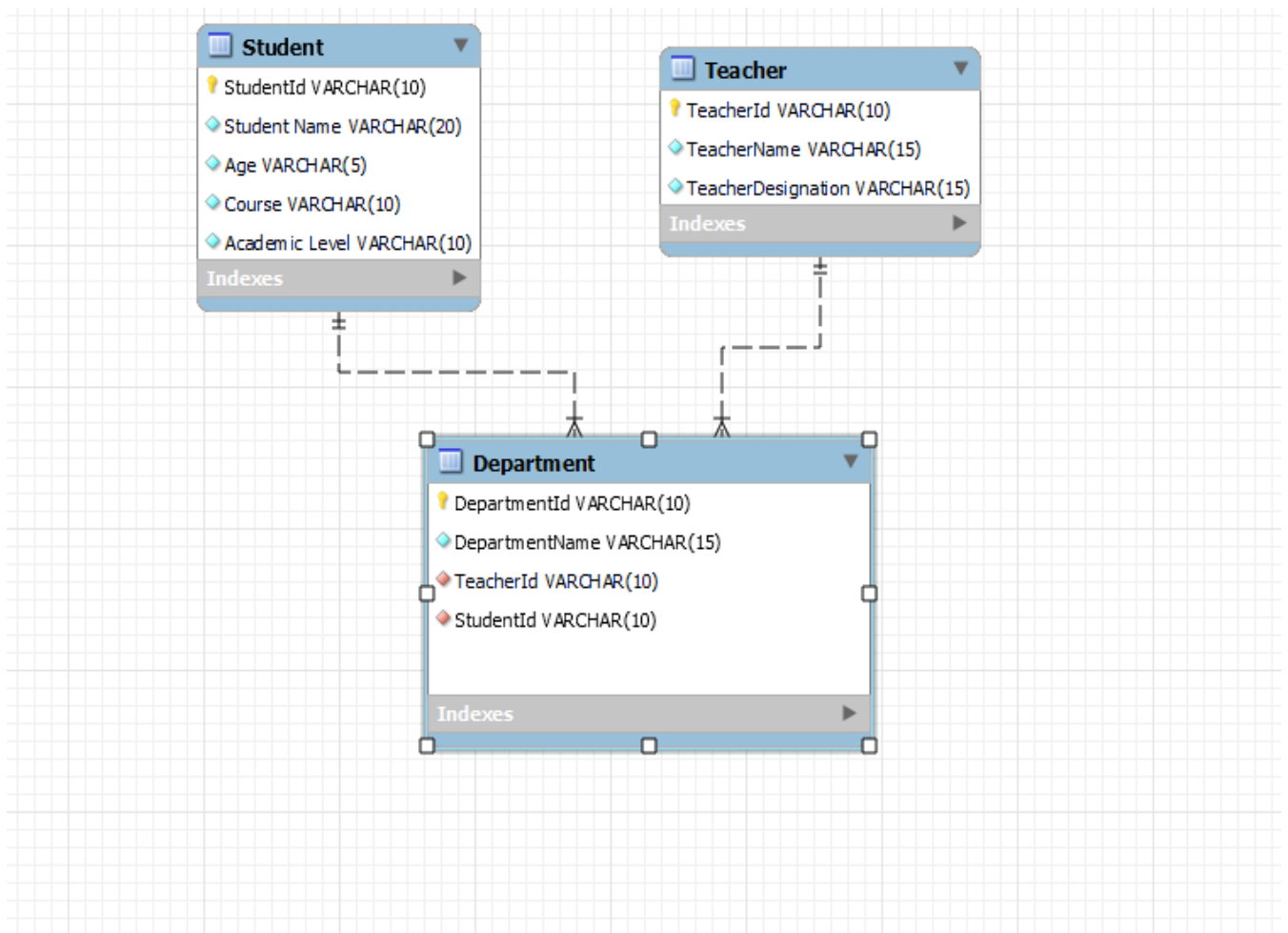


Data Analytics Course Final Assignment



Instruction

- ❖ Database Design Part
 - Build the relationship among tables using MySQL workbench where the Deletion condition in the foreign key table must be maintained.
 - Insert at least 10 rows into all tables.
- ❖ SQL Query Part
 - Write the query to return all student that age more than 22.
 - Write the query to return the teacher's ID, designation that teacher's designation are maximum in the database.
 - Write the query to return the teacher's designation that teacher's name second character is 'T'.

- Write the query to return the DepartmentName, student Age where average age of student more than or equal 22 in descending order.
- Find the Second Highest Student age of all department.
- ❖ Power BI Part
 - Connect with MySQL workbench with Power BI.
 - Construct Data Modeling among the table.
 - Visualize the data based on SQL Query part Question.

Sample Database

Student				
Student Id	Name	Age	Course	Academic Level
CSE-01	Farhan	23	Programming	BSc
CSE-02	Tamjid	24	Database	MSc
EEE-01	Shahid	22	Circuit	BSc
EEE-02	Karim	21	System Design	MSC
CE-01	Raihan	24	Structure Design	BSc

Teacher		
Teacher Id	Name	Designation
TCSE-01	Farhan	Lecturer
TCSE-02	Tamjid	Assistant Professor
TEEE-01	Shahid	Associate Professor
TEEE-02	Karim	Professor
TCE-01	Raihan	Professor

Department			
Department Id	DepartmentName	Student Id	Teacher Id
D-01	CSE	CSE-01	Programming
D-01	CSE	CSE-02	Database
D-02	EEE	EEE-01	Circuit
D-02	EEE	EEE-02	System Design
D-03	CE	CE-01	Structure Design