

## **CS F212-Database Management Systems**

Project: Live Online Test Conducting Portal (DBS\_PR\_13)

Group No.114

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### **★ System Requirement Specification (SRS)->**

#### **○ Software Configuration**

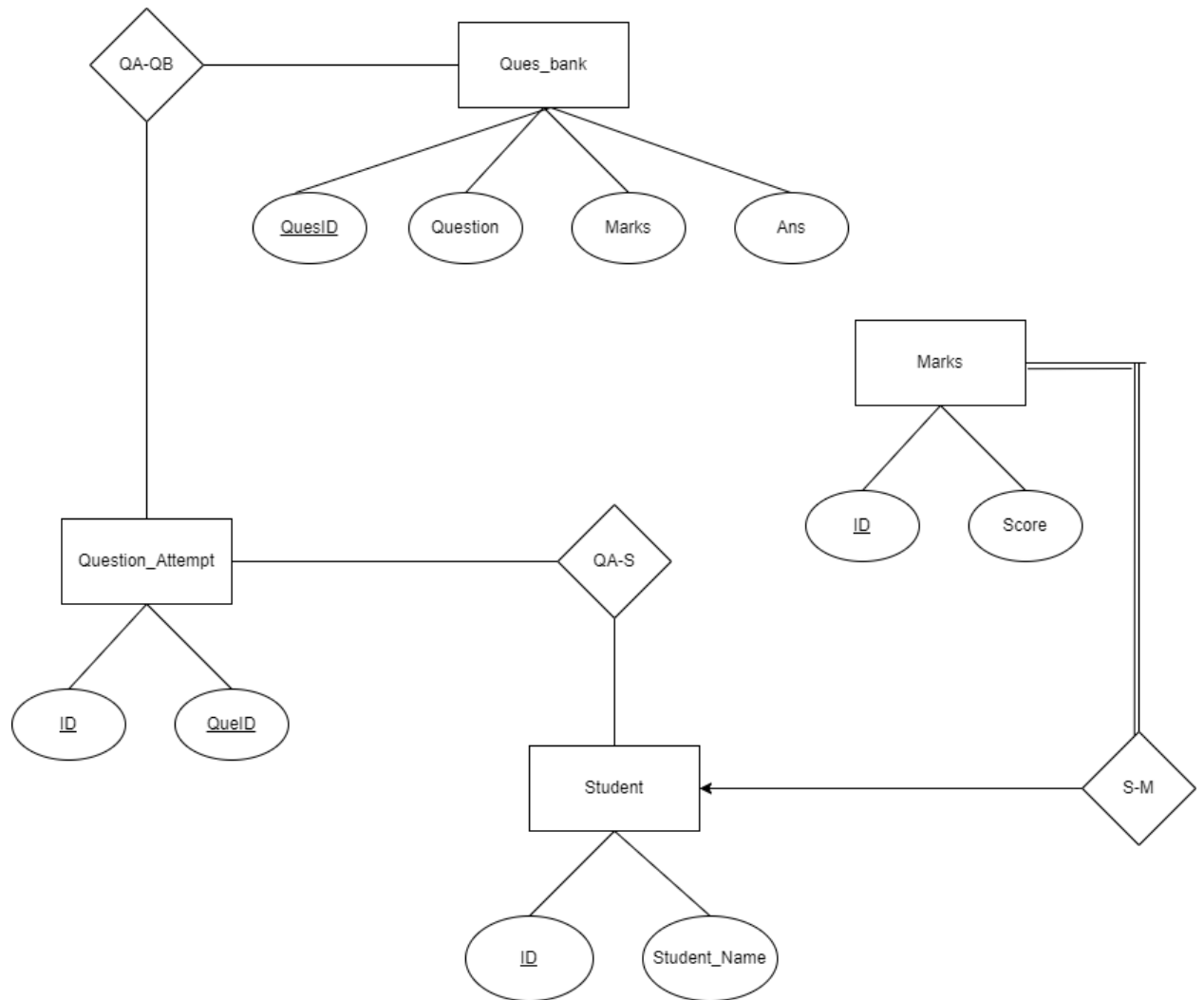
- Python 3.X.X
- mysql.connector and numpy (python packages)
- This Live Online Test Conducting Portal is developed using MySQL 8.0 by Oracle Corporation as the backend to store the database.
- Operating System: Linux, Solaris macOS, Windows
- Database: MySQL

#### **○ Hardware Configuration**

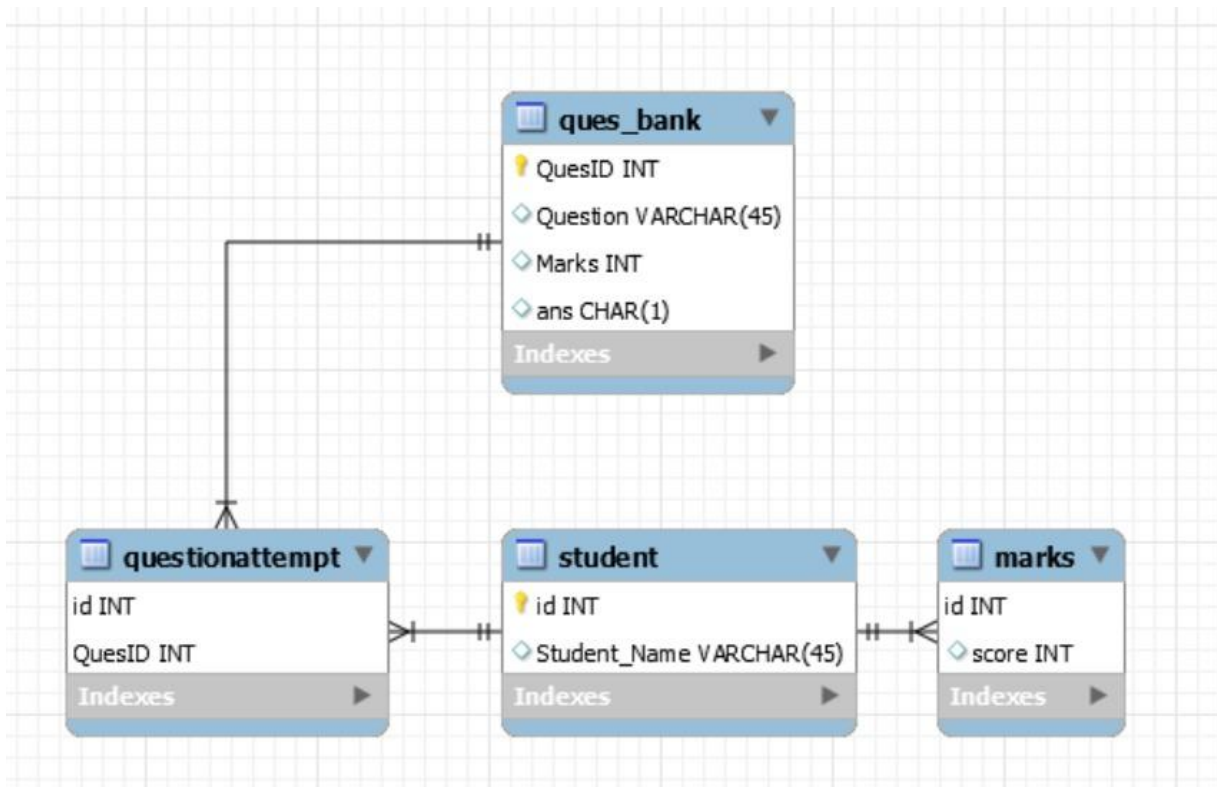
- Processor: Pentium(R)Dual-Core CPU and above
- HardDisk: 40GB or more
- RAM: 256 MB or more

## ★ System Modelling

### ○ ER Diagram



- Schema Design



- **Data Normalization:**

The schema used here is in BCNF as there are no partial or transitive functional dependencies in any of the relations (3NF), and for all FDs  $A \rightarrow B$ , A is a superkey of the relation (BCNF).

- **List of Tables Required:**

- Ques\_bank (QuesID, Question, Marks, ans)
- Questionattempt (id, QuesID)
- Student (id, Student\_Name)
- Marks (ID, Score)