**# Database Schema Documentation**

**## Introduction**

This document provides documentation for the database schema consisting of multiple tables used to manage information related to exams, questions, choices, key performance indicators (KPIs), job offers, topics, courses, students, instructors, and departments. Each table is designed to store specific data relevant to its domain. This schema is intended for educational institutions or organizations that need to manage exam-related information, student data, and related entities.

**## Tables**

**### 1. EXAM Table**

The `EXAM` table is used to store information about exams, including exam ID, date, grade, duration, and the number of questions.

- \*\*Exam\_id (INT)\*\*: Primary key for uniquely identifying each exam.

- \*\*Exam\_date (DATETIME)\*\*: Date and time of the exam.

- \*\*Exam\_grade (FLOAT)\*\*: The grade achieved in the exam.

- \*\*Exam\_duration (FLOAT)\*\*: The duration of the exam in minutes.

- \*\*NO\_of\_questions (INT)\*\*: The number of questions in the exam.

**### 2. QUESTION Table**

The `QUESTION` table stores data related to questions in exams.

- \*\*question\_id (INT)\*\*: Primary key for uniquely identifying each question.

- \*\*question\_txt (VARCHAR(100))\*\*: The text of the question.

- \*\*model\_ans\_id (INT)\*\*: ID of the model answer for the question.

- \*\*model\_ans\_txt (VARCHAR(100))\*\*: The text of the model answer.

- \*\*question\_mark (FLOAT)\*\*: The marks assigned to the question.

- \*\*question\_type (VARCHAR(30))\*\*: The type of question (e.g., multiple-choice, essay).

**### 3. CHOICE Table**

The `CHOICE` table is used to store choices for multiple-choice questions.

- \*\*Choice\_id (INT)\*\*: Primary key for uniquely identifying each choice.

- \*\*Is\_correct (INT)\*\*: Indicates whether the choice is correct (1 for correct, 0 for incorrect).

- \*\*Choice\_txt (VARCHAR(30))\*\*: The text of the choice.

**### 4. KPI Table**

The `KPI` table holds key performance indicators for students or instructors.

- \*\*KPI\_id (INT)\*\*: Primary key for uniquely identifying each KPI.

- \*\*Freelance\_salary (FLOAT)\*\*: Salary information for freelance work.

- \*\*Freelance\_status (VARCHAR(30))\*\*: The status of freelance employment.

- \*\*Cert\_status (VARCHAR(30))\*\*: Certification status.

**### 5. JOB\_OFFER Table**

The `JOB\_OFFER` table stores information about job offers, including salary, job status, and hiring status.

- \*\*Job\_offer\_id (INT)\*\*: Primary key for uniquely identifying each job offer.

- \*\*Job\_salary (FLOAT)\*\*: Salary offered for the job.

- \*\*Job\_status (VARCHAR(30))\*\*: The status of the job.

- \*\*Hiring\_status (VARCHAR(30))\*\*: The hiring status of the job.

**### 6. TOPIC Table**

The `TOPIC` table contains information about various topics.

- \*\*Topic\_id (INT)\*\*: Primary key for uniquely identifying each topic.

- \*\*Topic\_name (VARCHAR(30))\*\*: The name of the topic.

**### 7. COURSE Table**

The `COURSE` table stores information about courses, including course ID, name, and duration.

- \*\*Crs\_id (INT)\*\*: Primary key for uniquely identifying each course.

- \*\*Crs\_name (VARCHAR(30))\*\*: The name of the course.

- \*\*Crs\_duration (INT)\*\*: The duration of the course in weeks.

**### 8. STUDENT Table**

The `STUDENT` table contains information about students, including their personal details and academic information.

- \*\*Std\_id (INT)\*\*: Primary key for uniquely identifying each student.

- \*\*Std\_name (VARCHAR(30))\*\*: Student's name.

- \*\*Std\_age (INT)\*\*: Student's age.

- \*\*Std\_phone (INT)\*\*: Student's phone number.

- \*\*Std\_gender (VARCHAR(30))\*\*: Student's gender.

- \*\*Std\_email (VARCHAR(30))\*\*: Student's email address.

- \*\*Std\_faculty (VARCHAR(30))\*\*: Faculty or department in which the student is enrolled.

- \*\*Std\_address (VARCHAR(30))\*\*: Student's address.

- \*\*Std\_grade\_year (VARCHAR(30))\*\*: Student's academic grade or year.

**### 9. INSTRUCTOR Table**

The `INSTRUCTOR` table stores information about instructors.

- \*\*Ins\_id (INT)\*\*: Primary key for uniquely identifying each instructor.

- \*\*Ins\_name (VARCHAR(30))\*\*: Instructor's name.

- \*\*Ins\_gender (VARCHAR(30))\*\*: Instructor's gender.

- \*\*Ins\_email (VARCHAR(30))\*\*: Instructor's email address.

- \*\*Ins\_city (VARCHAR(30))\*\*: Instructor's city of residence.

- \*\*Ins\_phone (INT)\*\*: Instructor's phone number.

**### 10. DEPARTMENT Table**

The `DEPARTMENT` table contains information about departments or faculties.

- \*\*Dept\_id (INT)\*\*: Primary key for uniquely identifying each department.

- \*\*Dept\_name (VARCHAR(30))\*\*: Name of the department.

- \*\*Dept\_location (VARCHAR(30))\*\*: Location or campus of the department.

**## Conclusion**

This database schema is designed to efficiently manage and organize data related to exams, questions, choices, KPIs, job offers, topics, courses, students, instructors, and departments. It provides a structured and organized way to store and retrieve information in an educational or organizational context.