



Database Catalog: Examination System

Table: Department

Column Name	Data Type	Description
Department_ID	INT (PK)	Unique ID for each department
Department_Name	VARCHAR(100)	Name of the department
Department_Description	VARCHAR(MAX)	Description of the department

Table: Branch

Column Name	Data Type	Description
Branch_ID	INT (PK)	Unique ID for each branch
Branch_Name	VARCHAR(100)	Name of the branch

Table: Branch_Department

Column Name	Data Type	Description
Branch_ID	INT (PK, FK to Branch)	Linked branch ID
Department_ID	INT (PK, FK to Department)	Linked department ID

Table: Student

Column Name	Data Type	Description
Student_ID	INT (PK)	Unique ID for each student
First_Name	VARCHAR(100)	Student's first name
Last_Name	VARCHAR(100)	Student's last name
Birth_Date	DATE	Date of birth
Gender	VARCHAR(10)	Gender (e.g., Male/Female)
City	VARCHAR(50)	City of residence
Email	VARCHAR(100)	Email address
Password	VARCHAR(10)	Student login password
Department_ID	INT (FK)	References Department(Department_ID)

Table: Student_Phone

Column Name	Data Type	Description
Student_ID	INT (PK, FK)	Linked student
Phone_Number	VARCHAR(20) (PK)	Phone number of the student

Table: Certificate

Column Name	Data Type	Description
Certificate_ID	INT (PK)	Unique ID for the certificate
Certificate_Name	VARCHAR(100)	Name of the certificate
Certificate_Hour	INT	Hours of training
Certificate_Website	VARCHAR(100)	Issuing website
Certificate_Date	DATE	Date of issuance

Table: Student_Certificate

Column Name	Data Type	Description
Certificate_ID	INT (PK, FK)	Linked certificate
Student_ID	INT (PK, FK)	Linked student

Table: Hiring

Column Name	Data Type	Description
Hiring_ID	INT (PK)	Unique ID for hiring record
Hiring_Position	VARCHAR(MAX)	Position name
Hiring_Date	DATE	Date of hiring
Hiring_Company	VARCHAR(MAX)	Company name
Hiring_Location	VARCHAR(100)	Location of the job
Position_Type	VARCHAR(100)	Type of job (e.g., Full-Time, Part-Time)
Student_ID	INT (FK)	References Student(Student_ID)

Table: Freelancing

Column Name	Data Type	Description
Job_ID	INT (PK)	Unique job ID
Job_Name	VARCHAR(MAX)	Name of the freelance job
Job_Website	VARCHAR(100)	Platform (e.g., Upwork, Fiverr)
Job_Start_DATE	DATE	Start date of the job
Job_Tools	VARCHAR(100)	Tools or tech used
Feedback_Rating	INT	Rating from the client (1-5)
Student_ID	INT (FK)	References Student(Student_ID)

Table: Instructor

Column Name	Data Type	Description
Instructor_ID	INT (PK)	Unique ID for instructor
First_Name	VARCHAR(100)	First name
Last_Name	VARCHAR(100)	Last name
Birth_Date	DATE	Date of birth
Gender	VARCHAR(10)	Gender
City	VARCHAR(50)	City
Email	VARCHAR(100)	Email address
Password	VARCHAR(10)	Login password

Table: Course

Column Name	Data Type	Description
Course_ID	INT (PK)	Unique ID for each course
Course_Name	VARCHAR(100)	Name of the course
Instructor_ID	INT (FK)	References Instructor(Instructor_ID)

Table: Student_Course

Column Name	Data Type	Description
Student_ID	INT (PK, FK)	Linked student
Course_ID	INT (PK, FK)	Linked course

Table: Topic

Column Name	Data Type	Description
Topic_ID	INT (PK)	Unique topic ID
Topic_Name	VARCHAR(100)	Name of the topic
Course_ID	INT (FK)	References Course(Course_ID)

Table: Exam

Column Name	Data Type	Description
Exam_ID	INT (PK)	Unique exam ID
Exam_Name	VARCHAR(100)	Name/title of the exam
Exam_Duration	INT	Duration of the exam in minutes
Exam_Marks	INT	Total marks of the exam
Course_ID	INT (FK)	References Course(Course_ID)

Table: Question

Column Name	Data Type	Description
Question_ID	INT (PK)	Unique question ID
Question_Text	VARCHAR(MAX)	Text of the question
Question_Type	VARCHAR(3)	Type (MCQ/TF)
Question_Marks	INT	Marks assigned
Exam_ID	INT (FK)	References Exam(Exam_ID)

Table: Choice

Column Name	Data Type	Description
Choice_ID	INT (PK)	Unique choice ID
Choice_Text	VARCHAR(MAX)	Choice answer text
Is_Correct	INT	1 = Correct, 0 = Incorrect
Question_ID	INT (FK)	References Question(Question_ID)

Table: Student_Answer

Column Name	Data Type	Description
Student_Answer_ID	INT (PK)	Unique ID for the student answer
Student_Answer_Text	VARCHAR(MAX)	Submitted answer text
Student_Answer_Mark	INT	Marks received for the answer
Question_ID	INT (FK)	References Question(Question_ID)
Student_ID	INT (FK)	References Student(Student_ID)