…………………………………………………………….Assignment………………………………………………………………………

1. Create a Database & Table Using MySQL Command-Line Client.

● Create a database with the name StudentManagementSystem.

 Create a table with named Student with attributes:

 ● StudentID (Primary Key)

● FirstName

● LastName

● DateOfBirth

 ● Gender

● Email

● Phone

//code

CREATE DATABASE StudentManagementSystem;

Query OK, 1 row affected (0.17 sec)

mysql> USE StudentManagementSystem;

Database changed

mysql> CREATE TABLE Student (

-> StudentID INT NOT NULL AUTO\_INCREMENT,

-> FirstName VARCHAR(50) NOT NULL,

-> LastName VARCHAR(50) NOT NULL,

-> DateOfBirth DATE NOT NULL,

-> Gender ENUM('Male', 'Female', 'Other') NOT NULL,

-> Email VARCHAR(100) NOT NULL,

-> Phone VARCHAR(15) NOT NULL,

-> PRIMARY KEY (StudentID)

-> );

Query OK, 0 rows affected (0.85 sec)

mysql> show databases;

+-------------------------+

| Database |

+-------------------------+

| information\_schema |

| mysql |

| performance\_schema |

| studentmanagementsystem |

| sys |

+-------------------------+

5 rows in set (0.17 sec)

………………………………………………………………………………………………………………………………………………………….

2. Create a table with name Course with attributes:

● CourseID (Primary Key)

● CourseTitle

● Credits

//code

USE StudentManagementSystem;

Database changed

mysql> CREATE TABLE Course (

-> CourseID INT NOT NULL AUTO\_INCREMENT,

-> CourseTitle VARCHAR(100) NOT NULL,

-> Credits INT NOT NULL,

-> PRIMARY KEY (CourseID)

-> );

Query OK, 0 rows affected (0.68 sec)

mysql> show databases;

+-------------------------+

| Database |

+-------------------------+

| information\_schema |

| mysql |

| performance\_schema |

| studentmanagementsystem |

| sys |

+-------------------------+

5 rows in set (0.00 sec)

INSERT INTO Course(CourseID,CourseTitle,Credits)

-> VALUES(101,'Data Analytics',10);

Query OK, 1 row affected (0.19 sec)

select \* from Course;

+----------+----------------+---------+

| CourseID | CourseTitle | Credits |

+----------+----------------+---------+

| 101 | Data Analytics | 10 |

+----------+----------------+---------+

1 row in set (0.00 sec)

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3. Create a table with named Instructor with attributes:

● InstructorID (Primary Key)

● FirstName

● LastName

● Email

//code

USE StudentManagementSystem;

Database changed

mysql> CREATE TABLE Instructor (

-> InstructorID INT NOT NULL AUTO\_INCREMENT,

-> FirstName VARCHAR(50) NOT NULL,

-> LastName VARCHAR(50) NOT NULL,

-> Email VARCHAR(100) NOT NULL,

-> PRIMARY KEY (InstructorID)

-> );

Query OK, 0 rows affected (0.52 sec)

mysql> INSERT INTO Instructor (FirstName, LastName, Email)

-> VALUES ('Alice', 'Johnson', 'alice.johnson@example.com');

Query OK, 1 row affected (0.14 sec)

mysql>

mysql> INSERT INTO Instructor (FirstName, LastName, Email)

-> VALUES ('Bob', 'Williams', 'bob.williams@example.com');

Query OK, 1 row affected (0.09 sec)

mysql> select \* from Instructor;

+--------------+-----------+----------+--------------------------------------+

| InstructorID | FirstName | LastName | Email |

+--------------+-----------+----------+---------------------------------------+

| 1 | Alice | Johnson | alice.johnson@example.com |

| 2 | Bob | Williams | bob.williams@example.com |

+--------------+-----------+----------+---------------------------------------+

2 rows in set (0.00 sec)

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4. Create a table with named Enrollment with attributes:

● EnrollmentID (Primary Key)

● EnrollmentDate

● StudentID(Foreign key)

● CourseID(Foreign Key)

● InstructorID(Foreign key)

//code

USE StudentManagementSystem;

CREATE TABLE Enrollment (

EnrollmentID INT NOT NULL AUTO\_INCREMENT,

EnrollmentDate DATE NOT NULL,

StudentID INT NOT NULL,

CourseID INT NOT NULL,

InstructorID INT NOT NULL,

PRIMARY KEY (EnrollmentID),

FOREIGN KEY (StudentID) REFERENCES Student(StudentID),

FOREIGN KEY (CourseID) REFERENCES Course(CourseID),

FOREIGN KEY (InstructorID) REFERENCES Instructor(InstructorID)

);

INSERT INTO Enrollment (EnrollmentDate, StudentID, CourseID, InstructorID)

VALUES ('2024-09-01', 1, 101, 1);

INSERT INTO Enrollment (EnrollmentDate, StudentID, CourseID, InstructorID)

VALUES ('2024-09-01', 2, 102, 2);

mysql> select \* from Enrollment;

+--------------+-----------+----------+---------------------------+

| EnrollmentDate| StudentId| CourseID|Instructor |

+--------------+-----------+----------+---------------------------+

| 2024-09-01 | 1 | 101 | 1|

| 2024-09-01 | 2 | 102 | 2|

+--------------+-----------+----------+----------------+

2 rows in set (0.00 sec)

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5. Create a table with named Score with attributes:

● ScoreID (Primary Key)

● CourseID (Foreign key)

● StudentID (Foreign Key)

● DateOfExam

● CreditObtained

//code

USE StudentManagementSystem;

CREATE TABLE Score (

-> ScoreID INT NOT NULL AUTO\_INCREMENT,

-> CourseID INT NOT NULL,

-> StudentID INT NOT NULL,

-> DateOfExam DATE NOT NULL,

-> CreditObtained DECIMAL(5, 2) NOT NULL,

-> PRIMARY KEY (ScoreID),

-> FOREIGN KEY (CourseID) REFERENCES Course(CourseID),

-> FOREIGN KEY (StudentID) REFERENCES Student(StudentID)

-> );

Query OK, 0 rows affected (0.72 sec)

INSERT INTO Score (CourseID, StudentID, DateOfExam, CreditObtained)

VALUES (1, 1, '2024-12-01', 85.5);

INSERT INTO Score (CourseID, StudentID, DateOfExam, CreditObtained)

VALUES (2, 2, '2024-12-02', 90.0);

mysql> select \* from Score;

+--------------+-----------+----------+--------------------------------+

| CourseID | StudentId|, DateOfExam | CreditObtained|

+--------------+-----------+----------+--------------------------------+

| 1| 1 01|2024-12-01 | 85.5|

| 2| 102| 2024-12-02 | 90.0|

+--------------+-----------+----------+-------------------------------+

2 rows in set (0.00 sec)

…………………………………………………………………………………………………………………………………………………………

6. Create a table with named Feedback with attributes:

● FeedbackID (Primary Key)

● StudentID (Foreign key)

● Date

● InstructorName

● Feedback

//code

USE StudentManagementSystem;

Database changed

mysql> CREATE TABLE Feedback (

-> FeedbackID INT NOT NULL AUTO\_INCREMENT,

-> StudentID INT NOT NULL,

-> Date DATE NOT NULL,

-> InstructorName VARCHAR(100) NOT NULL,

-> Feedback TEXT NOT NULL,

-> PRIMARY KEY (FeedbackID),

-> FOREIGN KEY (StudentID) REFERENCES Student(StudentID)

-> );

Query OK, 0 rows affected (0.85 sec)

INSERT INTO Feedback (StudentID, Date, InstructorName, Feedback)

VALUES (1, '2024-12-15', 'Alice Johnson', 'Great instructor, very helpful and clear.');

INSERT INTO Feedback (StudentID, Date, InstructorName, Feedback)

VALUES (2, '2024-12-16', 'Bob Williams', 'Course was well-structured and informative.');

mysql> select \* from Feedback;

+-----+----------------+------------------+----------------------------------------------------------+

| StudentId | Date| InstructorName | Feedback |

+----+----------------+-------------------+-----------------------------------------------------------+

| 1| 2024-12-15 | Alice Johnson |Great instructor, very helpful and clear |

| 2| 2024-12-16 | Bob Williams | Course was well-structured and informative |

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1. 2 rows in set (0.00 sec)