

Database (MySQL)

Create a database named **EDGE Training Management System (etms)** with the following tables and **insert data** in each table.

```
courses(id, title, course_code, course_level, credits,  
instructor_id)
```

```
instructors(id, name, email, designation, phone, salary)
```

```
learners(id, name , roll, email, date_of_birth, city)
```

```
enrollments(id, students_id, course_id, enroll_date,  
status)
```

```
assessments(id, course_id, assessment_title,  
total_marks)
```

```
results(id, student_id, assessment_id, obtained_marks)
```

Instructions:

You need to submit all SQL code for the following questions. So, save all your code in a SQL file.

Q1: Create a Database named **etms** and corresponding tables using SQL Commands. [5]

Q2: Insert data into each table using SQL Commands. [5]

Q3: Write SQL commands for the following questions: [10]

- a) Find the list of students who enrolled in Database course.
- b) How many students enrolled in all courses?
- c) How many students enrolled for course having id 2?
- d) Find the list of senior trainers who get salary more than 50,000.
- e) Retrieve the list of learners and show them sorted alphabetically by their city.
- f) Increase the salary by 5% for those instructors who earn less than 50,000.
- g) What is the total marks for the students with id 3?
- h) What are the mark assessment criteria?
- i) Show the list of all basic courses that are taken by instructor with id 1.
- j) Find the list of employees who get more than average salary.

Table 1: courses

id	title	course_code	level	credits	instructor_id
1	Python Programming	P101	Basic	3	1
2	Database	DB202	Intermediate	4	2
3	Web Development	WD201	Intermediate	4	3
4	Web Design	WD102	Basic	3	1

Table 2: instructors

id	name	email	designation	phone	salary
1	Alice B	ab@edu.com	Trainer	9876	60,000
2	Bob Dan	bd@edu.com	Senior Trainer	456789	80,000
3	Charlie Choe	cc@edu.com	Junior Trainer	98765	40000

Table 3: learners

id	name	roll	email	date_of_birth	city
1	Alice Johnson	123	alice.j@students.com	10/10/99	Dhaka
2	Bob Williams	223	bob.w@students.com	22/6/99	Barishal
3	Carol Stevens	124	carol.s@students.com	12/11/01	Dhaka

Table 4: enrollments

id	student_id	course_id	enrollment_date	status
1	1	1	1/9/23	1
2	2	2	15/8/23	2
3	3	3	1/9/23	1

Table 5: assessments

id	course_id	assessment_title	total_marks
1	1	Python Midterm	20
2	2	Quiz 1	10
3	3	Project	20

Table 6: results

id	student_id	assessment_id	marks_obtained
1	1	1	85
2	2	2	45
3	3	3	80