Lab Assignment I

21/01/2025 Mark: 20

 Write the query, execute and paste screenshots, and make a pdf. Paste the text of the query too. You need to show a screenshot to demonstrate the correctness of your query. If you have made some changes that are not visible in the direct output, display the whole table again.

- Submit one file .pdf file containing all answers and the file name should be
 <roll no> <name> assignment1.pdf
- Write the questions before the answers.
- Write a small justification for your solution.
- Complete the exercise before 4.45 PM and submit the pdf in Moodle.

Find the Schema

- Movie (movieID, name, genre, releaseYear)
- Actor (actorID, movieID, name, age)

(movieID and actorID are unique in the above tables.)

 Create a database named MoviesDB. Create the above tables in MoviesDB with suitable data types, and include the appropriate primary key, foreign key, and domain constraints.

1

2

2. Insert the following entries into the tables:

Actor: (3, 1, "Tom Hanks", 64)

Movie: (1, "Forrest Gump", "Drama", 1994)

3. Insert the following entries into the tables using bulk insert:

Movie:

	(2, "The Matrix", "Sci-Fi", 1999)	
	• (3, "The Godfather", "Crime", 1972)	
	• (4, "Inception", "Sci-Fi", 2010)	
	• (5, "The Shawshank Redemption", "Drama", 1994)	
	Actor:	
	• (2, 2, "Keanu Reeves", 59)	
	• (4, 3, "Marlon Brando", 80)	
	• (5, 4, "Leonardo DiCaprio", 46)	
	• (6, 5, "Morgan Freeman", 87)	
4.	Modify the Movie table to include an additional column rating (with a default value	of 5)
	to store the rating of the movie. Update the ratings for all records as follows:	2
	(4, 3, 4, 5, 5) respectively.	
5.	What will happen if you try to insert the following into the Actor table? Why?	2
	(3, 1, "John Doe", 35)	
6.	Bulk insert all the values from a provided CSV file (actor_insert.csv) into the Actor	r
	table.	1
	(Hint: Download the CSV file and use the appropriate command for bulk insertion))
7.	Display all contents of the Movie table.	1
8.	Display only the names and ages from the Actor table.	1
9.	Display the names of the actors who are older than 50 years old.	1
10.	List the names of the movies that were released after 2000.	1

11.	Increment the age of all "The Matrix" actors by 1 year. Display the entire Actor ta	
	after the operation.	2
12.	Dump the database into a .sql file and include that in your submission.	1
13.	Delete the Actor table. List existing relations in the database.	1
14.	Delete the MoviesDB database. Then, list the existing databases.	1

Practice Questions

- 1. Restore the database
- 2. Create a new table Director (directorID, name, age). The directorID should be the primary key.
- 3. Insert the following information into Director
 - (1, "Christopher Nolan", 53)
 - (2, "Francis Ford Coppola", 85)
- 4. Modify the Movie table to include a new column directorID as a foreign key referencing the Director table.
- 5. Create a new table Review with columns reviewID (integer), movieID (integer), review(varchar), rating (integer), and reviewDate (date). The reviewID should be the primary key, and movieID should be a foreign key referencing the Movie table.
- 6. Create a CSV file with review data. Do a bulk insert to the Review table.