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|  | **Database Management Systems**  **BSCS-4**  **Department of Computer Science**  **Bahria University, Lahore Campus** |

**Quiz: 1**

Date: Week 4, 10th October 2023

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Roll No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Evaluation of CLO** | **Question Number** | **Marks** | **Obtained Marks** |
| **CLO: Queries to extract information from database.** |  |  |  |
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| **Total Marks** | | **10** |  |

**Scenario:**

**A movie database contains information about movies, actors, and directors. The database schema consists of the following tables:**

1. Movies:

- movie\_id (Primary Key)

- movie\_title

- release\_year

- genre

- director\_id (Foreign Key referencing Directors)

2. Actors:

- actor\_id (Primary Key)

- actor\_name

- birth\_year

3. Directors:

- director\_id (Primary Key)

- director\_name

- birth\_year

**Assume suitable data exists in these tables.**

**Task 1:**

1. Write SQL queries to create the database named "MovieDB" and create the three tables (Movies, Actors, Directors) with the appropriate attributes.
2. Display the titles of all movies released in the year 2020.
3. List the names of actors born before the year 1980.
4. Show the names of directors who have directed movies in the "Action" genre.
5. Display the total number of movies in the database.
6. Write an SQL query to calculate the average birth year of all actors.
7. List the names of movies in the "Science Fiction" genre.