Bahria University
Discovering Knowledge

**Database Management Systems**

**BSCS-4**

**Department of Computer Science**
**Bahria University, Lahore Campus**

**Quiz: 1**

Date: Week 4, 10th ~~March~~ October 2023

Name: Ahsan Waheed

Roll No: 03-134221-005

| 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:**

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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.

1) create database MovieDB
create table Movies ( movie_id primary key int, movie title varchar(20),
release_year int, genre varchar(20), director_id foreign key from Directors);
create table Actors ( actor_id primary key int, actor_name varchar(20),
birth_year int );
create table Directors ( director_id primary key int, director_name varchar(2
, birth_year int);

2) select movie_title from Movies
where release_year = 2020;

3) select actor_name from Actors
where birth_year < 1980;

4) select director_name from ~~Directors~~ Movies
where genre = 'Action';

5) select ~~movie~~ count (movie_title) from Movies

6) select avg (birth_year) from Actors

7) Select movie_title from Movies
where genre = 'Science Fiction';