Sessional Assignment Summer

Course Name: Introduction to Database Systems

Submitted By:

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BS (SE-8) Section: A

Submitted To:

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Department of Computer Science,
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Sessional Assignment Summer 2020

Course Title: Database Systems
Instructor: Rimsha Khan
Total Marks: 20

NOTE: Understanding the paper is part of solving the paper so no questions will be entertained.

INSTUCTIONS:

- **Only write queries. No need to run the queries and show results.**
- **Upload after converting to PDF**

Q1: Write SQL queries for the following DDL Statements

1. **Write SQL Query to create a Database by the name Gallery (Marks 2)**
2. **Write a SQL query to create a table by the name Movies which should have the following columns and restrictions: (Marks 10)**

   Column Name: ID   Type: integer
   Column Name: Movie_Name   Type: varchar
   Column Name: Genre   Type: varchar
   Column Name: Year   Type: integer
   Column Name: Rating   Type: integer

   Restrictions: ID should be the primary key i.e NOT NULL. Movie_Name should also be NOT NULL. Year should have a maximum value of 2020 and rating should have a maximum value of 5.

3. **Write 4 SQL Queries to insert RANDOM data of 4 movies in Movies Table. (4 marks).**
4. **Write SQL Query for finding/displaying movies with rating greater than 4. (2 marks)**
5. **Write an SQL Query to delete data of movies of year 2020. (2 marks)**

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Q1

Answer:

CREATE DATABASE Gallery;

Q2

Answer:

```
CREATE TABLE Movies (

    ID int NOT NULL PRIMARY KEY,

    Movie_Name varchar NOT NULL,

    Genre varchar,

    Year int ,

    Rating int,

    check (Year between 0 and 2020),

    check (Rating between 0 and 5),
);
```

Q3

Answer:

```
INSERT INTO Movies (ID,Movie_Name,Genre,Year,Rating)

VALUES (1, 'Inception', 'Sci-Fi', 2010, 5 );


INSERT INTO Movies (ID,Movie_Name,Genre,Year,Rating)

VALUES (2, 'Mr. Nobody', 'Sci-Fi', 2009, 5 );


INSERT INTO Movies (ID,Movie_Name,Genre,Year,Rating)

VALUES (3, 'Triangle', 'Thriller', 2009, 4 );


INSERT INTO Movies (ID,Movie_Name,Genre,Year,Rating)

VALUES (4, 'Shutter Island', 'Mystery', 2010, 5 );
```

Q4

Answer:

SELECT Rating FROM Movies

WHERE Rating > 4;

Q5

Answer:

DELETE FROM Movies

WHERE Year=2020;