**Movie database:**

**Table name: Directors**

**Description: Used to store Directors Information**

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Data Type** | **Constraints** |
| Id | Int(5) | Primary Key/ Not Null |
| Name | Varchar2(40) | Not Null |

**Table name: Stars**

**Description: Used to store Stars Information**

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Data Type** | **Constraints** |
| Id | Int(5) | Primary Key/ Not Null |
| Name | Varchar2(40) | Unique |
| About | Varchar2(100) |  |

**Table name: Movies**

**Description: Used to store Movies Information**

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Data Type** | **Constraints** |
| Id | Int(5) | Primary Key/ Not Null |
| Title | Varchar2(40) |  |
| Year | Int(4) |  |
| Image\_url | Varchar2(100) |  |
| Certificate | Varchar2(40) |  |
| Runtime | Int(5) |  |
| ImdbRating | Float(3,1) | By default 0 |
| Description | Text(100) |  |
| Metascore | Float(3,1) | By default 0 |
| Votes | Int(10) | By default 0 |
| Gross | Number(10,2) |  |

**Table name: MoviesDirectors**

**Description: Used to store Movie Directors Information**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute** | **Data Type** | **Constraints** |  |
| MoviesId | Int(5) | Foreign Key references  Id of **Movies** table | Primary Key |
| DirectorsId | Int(5) | Foreign Key references  Id of **Directors** table |

**Table name: MoviesStars**

**Description: Used to store Movie Stars Information**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute** | **Data Type** | **Constraints** |  |
| MoviesId | Int(5) | Foreign Key references  Id of **Movies** table | Primary Key |
| StarsId | Int(5) | Foreign Key references  Id of **Stars** table |

**1. Practice SQL Data Definition Language(DDL) commands**

1. Create the tables based on the above description.
2. Add a column ‘DOB’ to **Stars** table.
3. Drop the column ‘Gross’ in **Movies** table.
4. Add column ‘Language’ in **Movies** table.
5. Change the name of the column ‘Year’ in **Movies table** to ReleaseYear.
6. Add a column Age in **Directors** table.
7. Destroy the table **MoviesStars** and recreate it.
8. Change the size of Director’s name to 30.
9. Add the following check constraints:
   1. Age of Director should be less than 7 years from current system date.
   2. Language of movies should be Malayalam, English, Tamil or Hindi.
10. **Practice SQL Data Manipulation Language (DML) commands**
11. Row insertion, deletion and updating

* Insert the appropriate data (10 rows) for the tables with respect to defined datatypes, size and constraints.
* Create table **IndustryHit** with the following columns:

Id

Title

Year

Language

Votes

Gross

The data types and null characteristics for these columns should be

the same as the corresponding columns in the **Movies** table

described at the beginning of the lab exercise.

* New movies hit the box office, their data is as follows:

Id: 1014, 1021, 1032

Title: 2018: Everyone is a Hero, Oppenheimer, Maamannan

Year: 2023, 2023, 2023

Language: Malayalam, English, Tamil

Votes: 97, 96, 95

Gross: 1,750000000 , 500000000, 505000000

Add the new employees to the **IndustryHit** table.

* Insert data into the new **IndustryHit** table.
* Insert data into the **IndustryHit** table by copying the appropriate columns in the **Movies** table for those Movies that have Votes greater than or equal to 95.
* Movie Oppenheimer got a Metascore of 80. Make the appropriate data change.
* Movie ‘Voice Of Sathyanathan’ had released.

For ‘Voice Of Sathyanathan’ enter the following data:

Id : 1015

Title: Voice Of Sathyanathan

Year: 2023

Image\_url: https://m.media-amazon.com/images/M/MV5BMzFjYTE3OGItYmI4My00N2UwLWI4OTctZjk5ZTAyN2FiNmZiXkEyXkFqcGdeQXVyMTQ3Mzk2MDg4.\_V1\_.jpg

Certificate: [https://www.google.com/url?sa=i&url=https%3A%2F%](https://www.google.com/url?sa=i&url=https%3A%2F%25)