```sql
CREATE TABLE Genres (

    genre_id INT PRIMARY KEY,

    genre_name VARCHAR(50) NOT NULL

);


INSERT INTO Genres ( genre_id, genre_name) VALUES

(1, 'Action'),

(2, 'Drama'),

(3, 'Comedy'),

(4, 'Horror'),

(5, 'Thriller'),

(6, 'Sci-Fi'),

(7, 'Romance'),

(8, 'Adventure'),

(9, 'Fantasy'),

(10, 'Animation'),

(11, 'Documentary'),

(12, 'Crime'),

(13, 'Musical'),

(14, 'War'),

(15, 'Mystery');


CREATE TABLE Platforms (

    platform_id INT PRIMARY KEY,

    platform_name VARCHAR(100) NOT NULL,
```

```
    subscription_cost DECIMAL(5, 2) NOT NULL
);


INSERT INTO Platforms (platform_id, platform_name, subscription_cost) VALUES
(1, 'Netflix', 15.99),
(2, 'Amazon Prime', 12.99),
(3, 'Hotstar', 14.99),
(4, 'Disney+', 11.99),
(5, 'HBO Max', 16.99),
(6, 'Apple TV+', 9.99),
(7, 'Peacock', 8.99),
(8, 'Paramount+', 10.99),
(9, 'YouTube Premium', 11.99),
(10, 'Starz', 8.99),
(11, 'Crunchyroll', 7.99),
(12, 'Mubi', 10.99),
(13, 'Discovery+', 9.99),
(14, 'Showtime', 11.99);




CREATE TABLE Awards (
    award_id INT PRIMARY KEY,
    award_name VARCHAR(100) NOT NULL,
    category VARCHAR(50) NOT NULL

);


INSERT INTO Awards (award_id, award_name, category) VALUES
```

(1, 'Oscar', 'Best Picture'),

(2, 'Oscar', 'Best Director'),

(3, 'Golden Globe', 'Best Actor'),

(4, 'Golden Globe', 'Best Actress'),

(5, 'BAFTA', 'Best Screenplay'),

(6, 'Oscar', 'Best Visual Effects'),

(7, 'Oscar', 'Best Sound Editing'),

(8, 'Emmy', 'Best Series'),

(9, 'Oscar', 'Best Costume Design'),

(10, 'Golden Globe', 'Best Musical/Comedy'),

(11, 'Oscar', 'Best Cinematography'),

(12, 'BAFTA', 'Best Editing'),

(13, 'Cannes', 'Palm d'Or'),

(14, 'Oscar', 'Best Original Song'),

(15, 'Golden Globe', 'Best Picture'),

(16, 'Golden Globe', 'Best Animated Film'),

(17, 'Oscar', 'Best Animated Film');

CREATE TABLE Directors (

    director_id INT PRIMARY KEY,

    name VARCHAR(100) NOT NULL,

    birth_date DATE ,

    nationality VARCHAR(50) NOT NULL

);

INSERT INTO Directors (director_id, name, birth_date, nationality) VALUES

(1, 'Christopher Nolan', '1970-07-30', 'British'),

(2, 'Steven Spielberg', '1946-12-18', 'American'),

(3, 'Martin Scorsese', '1942-11-17', 'American'),

(4, 'Quentin Tarantino', '1963-03-27', 'American'),

(5, 'James Cameron', '1954-08-16', 'Canadian'),

(6, 'Damien Chazelle', '1983-08-04', 'American'),

(7, 'Alfonso Cuarón', '1961-11-28', 'Mexican'),

(8, 'Denis Villeneuve', '1967-10-03', 'Canadian'),

(9, 'Patty Jenkins', '1971-07-24', 'American'),

(10, 'Taika Waititi', '1975-08-16', 'New Zealander'),

(11, 'Wes Anderson', '1969-05-01', 'American'),

(12, 'Kathryn Bigelow', '1951-11-27', 'American'),

(13, 'Danny Boyle', '1956-10-20', 'British'),

(14, 'Bong Joon-ho', '1969-09-14', 'South Korean'),

(15, 'Guillermo del Toro', '1964-10-09', 'Mexican'),

(16, 'Hayao Miyazaki', '1941-01-05', 'Japanese'),

(17, 'Makoto Shinkai', '1973-02-09', 'Japanese');

```
CREATE TABLE Actors (
    actor_id INT PRIMARY KEY,
    name VARCHAR(100) NOT NULL,
    birth_date DATE NOT NULL,
    nationality VARCHAR(50) NOT NULL,
    total_movie INT DEFAULT 0
);
```

INSERT INTO Actors (actor_id, name, birth_date, nationality, total_movie) VALUES

(1, 'Leonardo DiCaprio', '1974-11-11', 'American', 30),

(2, 'Cillian Murphy', '1976-05-25', 'Irish', 41),

(3, 'Tom Hanks', '1956-07-09', 'American', 40),

(4, 'Robert De Niro', '1943-08-17', 'American', 70),

(5, 'Scarlett Johansson', '1984-11-22', 'American', 35),

(6, 'Margot Robbie', '1990-07-2', 'Australian', 30),

(7, 'Brad Pitt', '1963-12-18', 'American', 45),

(8, 'Gal Gadot', '1990-07-02', 'Israeli', 25),

(9, 'Denzel Washington', '1954-12-28', 'American', 50),

(10, 'Emma Stone', '1988-11-06', 'American', 20),

(11, 'Chris Hemsworth', '1983-08-11', 'Australian', 25),

(12, 'Sam Worthington', '1976-08-02', 'British', 35),

(13, 'Ryan Gosling', '1980-11-12', 'Canadian', 30),

(14, 'Anne Hathaway', '1982-11-12', 'American', 25),

(15, 'Christian Bale', '1974-01-30', 'British', 40),

(16, 'Samuel L. Jackson', '1948-12-21', 'American',55),

(17, 'Robert Downey Jr', '1965-04-4', 'American',46),

(18, 'Dev Patel', '1984-02-18', 'American',25),

(19, 'Jason Momo', '1979-02-18', 'American',30),

(20, 'Kate Winslet', '1975-10-05', 'British',30),

(21, 'Tom Hardy', '1977-09-15', 'British',40),

(22, 'Timothée Chalamet', '1995-12-27', 'American',23),

(23, 'Matthew McConaughey', '1969-11-04', 'American',36),

(24, 'George Clooney', '1961-05-06', 'American',50),

(25, 'Jesse Eisenberg', '1983-10-05', 'American',30),

(26, 'Andrew Garfield', '1983-10-20', 'American',28),

(27, 'Matt Damon', '1970-10-08', 'American',40),

(28, 'Keanu Reeves', '1964-09-02', 'Canadian',38),

(29, 'Jeremy Renner', '1971-01-07', 'American',43),

(30, 'Matt Damon', '1970-10-08', 'American',40);

CREATE TABLE Movies (

   movie_id INT PRIMARY KEY,

   title VARCHAR(100) NOT NULL,

   release_year INT NOT NULL,

   duration VARCHAR(11) NOT NULL,

   genre_id INT NOT NULL,

   director_id INT NOT NULL,

   language VARCHAR(50) NOT NULL,

   industry VARCHAR(50) NOT NULL,

   FOREIGN KEY (genre_id) REFERENCES Genres(genre_id),

   FOREIGN KEY (director_id) REFERENCES Directors(director_id)

);

INSERT INTO Movies (movie_id, title, release_year, duration, genre_id, director_id, language, industry) VALUES

(1, 'Inception', 2010, '148 min', 6, 1, 'English', 'Hollywood'),

(2, 'Titanic', 1997, '195 min', 7, 5, 'English', 'Hollywood'),

(3, 'The Dark Knight', 2008, '152 min', 1, 1, 'English', 'Hollywood'),

(4, 'Pulp Fiction', 1994, '154 min', 12, 4, 'English', 'Hollywood'),

(5, 'Parasite', 2019, '132 min', 2, 14, 'Korean', 'Korean Cinema'),

(6, 'Dune', 2021, '155 min', 6, 8, 'English', 'Hollywood'),

(7, 'The Grand Budapest Hotel', 2014, '99 min', 3, 11, 'English', 'Hollywood'),

(8, 'Wonder Woman', 2017, '141 min', 8, 9, 'English', 'Hollywood'),

(9, 'Avatar', 2009, '162 min', 6, 5, 'English', 'Hollywood'),

(10, 'La La Land', 2016, '128 min', 13, 6, 'English', 'Hollywood'),

(11, 'Mad Max: Fury Road', 2015, '120 min', 1, 12, 'English', 'Hollywood'),

(12, 'Jojo Rabbit', 2019, '108 min', 3, 10, 'English', 'Hollywood'),

(13, 'The Irishman', 2019, '209 min', 12, 3, 'English', 'Hollywood'),

(14, 'The Departed', 2006, '151 min', 12, 3, 'English', 'Hollywood'),

(15, 'The Shape of Water', 2017, '123 min', 9, 15, 'English', 'Hollywood'),

(16, 'Interstellar', 2014, '169 min', 6, 1, 'English', 'Hollywood'),

(17, 'Shutter Island', 2010, '138 min', 15, 3, 'English', 'Hollywood'),

(18, 'The Revenant', 2015, '156 min', 2, 7, 'English', 'Hollywood'),

(19, 'Gravity', 2013, '91 min', 6, 7, 'English', 'Hollywood'),

(20, 'The Social Network', 2010, '120 min', 2, 12, 'English', 'Hollywood'),

(21, 'Slumdog Millionaire', 2008, '120 min', 2, 13, 'English', 'Bollywood'),

(22, 'Blade Runner 2049', 2017, '163 min', 6, 8, 'English', 'Hollywood'),

(23, 'The Matrix', 1999, '136 min', 6, 12, 'English', 'Hollywood'),

(24, 'Oppenheimer', 2023, '180 min', 2, 1, 'English', 'Hollywood'),

(25, 'The Avengers', 2012, '143 min', 1, 5, 'English', 'Hollywood'),

(26, 'The Wolf of Wall Street', 2013, '180 min', 12, 3, 'English', 'Hollywood'),

(27, 'First Man', 2018, '107 min', 6, 6, 'English', 'Hollywood'),

(28, 'Brbie', 2023, '114 min', 7, 9, 'English', 'Hollywood'),

(29, 'Arrival', 2016, '116 min', 6, 8, 'English', 'Hollywood'),

(30, 'The Godfather', 1972, '175 min', 12, 3, 'English', 'Hollywood'),

(31, 'The Pianist', 2002, '150 min', 14, 7, 'English', 'Hollywood'),

(32, 'Schindlers List', 1993, '195 min', 14, 2, 'English', 'Hollywood'),

(33, 'Thor Love And Thunder', 2022, '119 min', 1, 10, 'English', 'Hollywood'),

(34, 'Inside Out', 2015, '95 min', 10, 6, 'English', 'Hollywood'),

(35, 'The Lion King', 1994, '88 min', 10, 11, 'English', 'Hollywood'),

(36, 'Your Name', 2016, '112 min', 10, 17, 'Japanese', 'Anime'),

(37, 'Spirited Away', 2001, '125 min', 9, 15, 'Japanese', 'Anime'),

(38, 'Howls Moving Castle', 2004, '119 min', 9, 16, 'Japanese', 'Anime'),

(39, 'The Wind Rises', 2013, '126 min', 10, 16, 'Japanese', 'Anime'),

(40, 'The Boy And The Heron', 2023, '124 min', 10, 16, 'Japanese', 'Anime'),

(41, 'Roma', 2018, '135 min', 2, 7, 'Spanish', 'Mexican Cinema'),

(42, 'Weathering with You', 2019, '114 min', 10, 17, 'Japanese', 'Anime'),

(43, '5 Centimeters Per Second', 2007, '63 min', 10, 17, 'Japanese', 'Anime'),

(44, 'The Garden Of Words', 2013, '43 min', 10, 17, 'Japanese', 'Anime');

CREATE TABLE critics (

   critic_id INT PRIMARY KEY,

   critic_name VARCHAR(50) NOT NULL,

   email VARCHAR(100) NOT NULL UNIQUE,

   join_date DATE

);

INSERT INTO critics (critic_id, critic_name, email, join_date) VALUES

(1, 'Roger Ebert', 'roger.ebert@example.com', '1995-06-15'),

(2, 'Peter Travers', 'peter.travers@example.com', '2001-03-10'),

(3, 'Manohla Dargis', 'manohla.dargis@example.com', '2005-07-25'),

(4, 'A.O. Scott', 'a.o.scott@example.com', '2000-11-05'),

(5, 'Richard Roeper', 'richard.roeper@example.com', '2002-02-18'),

(6, 'Ann Hornaday', 'ann.hornaday@example.com', '2010-09-14'),

(7, 'Owen Gleiberman', 'owen.gleiberman@example.com', '2008-04-30'),

(8, 'Claudia Puig', 'claudia.puig@example.com', '2015-01-20'),

(9, 'Kenneth Turan', 'kenneth.turan@example.com', '2003-08-12'),

(10, 'Lisa Schwarzbaum', 'lisa.schwarzbaum@example.com', '2012-06-01'),

(11, 'Todd McCarthy', 'todd.mccarthy@example.com', '2007-05-10'),

(12, 'Stephanie Zacharek', 'stephanie.zacharek@example.com', '2018-11-22'),

(13, 'James Berardinelli', 'james.berardinelli@example.com', '1998-03-15'),

(14, 'Ty Burr', 'ty.burr@example.com', '2004-07-28'),

(15, 'Mick LaSalle', 'mick.lasalle@example.com', '2011-09-03');

```sql
CREATE TABLE Movie_Actors (

    movie_id INT,

    actor_id INT,

    role_name VARCHAR(50) NOT NULL,

    FOREIGN KEY (movie_id) REFERENCES Movies(movie_id),

    FOREIGN KEY (actor_id) REFERENCES Actors(actor_id),

    PRIMARY KEY (movie_id, actor_id)

);


INSERT INTO Movie_Actors (movie_id, actor_id, role_name) VALUES
(1, 1, 'Dom Cobb'),


(2, 1, 'Jack Dawson'),
(2, 20, 'Rosse' ),


(3, 15, 'Bruce Wayne'),
(3, 2, 'Scarecrow'),


(4, 17, 'Vincent Vega'),
(4, 16, 'Jules Winnfield'),


(5, 5, 'Kim Ki-taek'),
```

(5, 9, 'Chung-sook'),

(6, 19, 'Duncan'),
(6, 22, 'Paul Atreides'),

(7, 7, 'M. Gustave'),

(8, 8, 'Diana Prince'),

(9, 12, 'Jake Sully'),
(9, 20, 'Ronal'),

(10, 10, 'Mia Dolan'),
(10, 13, 'Sebastian'),

(11, 21, 'Max Rockatansky'),

(12, 5, 'Rosie Betzler'),

(13, 4, 'Frank Sheeran'),

(14, 1, 'William'),
(14, 27, 'Colin Sullivan'),

(15, 15, 'Elisa Esposito'),
(15, 9, 'Giles'),

(16, 23, 'Cooper'),
(16, 22, 'Tom'),

(16, 30, 'Mann'),

(16, 14, 'Brand'),

(17, 1, 'Teddy Daniels'),

(18, 1, 'Hugh Glass'),

(18, 21, 'John Fitzgerald'),

(19, 24, 'Matt Kowalski'),

(20, 25, 'Mark Zuckerberg'),

(20, 26, 'Eduardo Saverin'),

(21, 18, 'Jamal Malik'),

(22, 13, 'K'),

(23, 28, 'Neo'),

(24, 2, 'Oppenheimer'),

(24, 30, 'Gen. Leslie'),

(24, 17, 'Lewis Strauss'),

(25, 17, 'Tony Stark'),

(25, 11, 'Thor'),

(25, 29, 'Clint'),

(25, 16, 'Nick Flury'),

(25, 5, 'Natasha Romanoff'),

(26, 1, 'Jordan Belfort'),

(26, 23, 'Mark Hanna'),

(26, 6, 'Naomai Laoaglia'),

(27, 13, 'Neil Armstrong'),

(28, 6, 'Barbie'),

(28, 13, 'Ken'),

(29, 29, 'Ian Donnelly');

CREATE TABLE Ratings (

   movie_id INT NOT NULL,

   critic_id INT NOT NULL,

   rating DECIMAL(3,1) NOT NULL,

   rating_date DATE ,

   PRIMARY KEY(movie_id,critic_id),

   FOREIGN KEY (movie_id) REFERENCES Movies(movie_id),

   FOREIGN KEY (critic_id) REFERENCES critics(critic_id)

);

INSERT INTO Ratings (movie_id, critic_id, rating, rating_date)VALUES

(1, 1, 9.0, '2010-07-16'),

(1, 2, 8.5, '2010-07-18'),

```
( 2, 3, 8.0, '2005-12-20'),

( 2, 4, 8.2, '2000-12-22'),

( 3, 5, 9.5, '2008-07-20'),

( 3, 4, 9.3, '2008-07-21'),

( 4, 7, 9.0, '2024-10-14'),

( 4, 8, 9.2, '2024-10-16'),

( 5, 9, 9.6, '2019-05-30'),

( 6, 12, 10.0, '2021-10-22'),

( 7, 11, 8.5, '2014-03-28'),

( 8, 11, 7.9, '2017-06-02'),

( 9, 13, 8.0, '2009-12-18'),

( 10, 14, 9.3, '2016-12-09'),

( 11, 1, 8.5, '2015-07-18'),

( 11, 2, 8.0, '2015-12-20'),

( 12, 3, 7.2, '1997-12-22'),

( 12, 4, 7.5, '2019-07-20'),

( 15, 5, 9.3, '2017-07-21'),

( 14, 5, 9.0, '2006-10-14'),

( 17, 7, 9.2, '2010-10-16'),

( 17, 14, 9.6, '2010-05-30'),

( 17, 9, 8.9, '2010-10-22'),

( 18, 10, 8.5, '2015-03-28'),

( 18, 15, 8.9, '2015-06-02'),

( 40, 13, 8.0, '2023-12-18'),

( 41, 14, 9.3, '2018-12-09'),

( 44, 15, 10.0, '2013-05-15');
```

```sql
CREATE TABLE Movie_Awards (

    movie_id INT,

    award_id INT,

    FOREIGN KEY (movie_id) REFERENCES Movies(movie_id),

    FOREIGN KEY (award_id) REFERENCES Awards(award_id),

    PRIMARY KEY (movie_id, award_id)

);


INSERT INTO Movie_Awards (movie_id, award_id) VALUES

(1, 6),

(1, 11),


(2, 1),

(2, 2),

(2, 5),


(3, 6),

(3, 11),


(5, 1),

(5, 2),


(6, 1),

(6, 6),

(6, 7),

(6, 11),

(6, 12),

(6, 15),
```

(9, 1),

(9, 6),

(9, 11),

(10, 1),

(16, 1),

(16, 5),

(16, 6),

(16, 11),

(17, 15),

(18, 3),

(21, 1),

(21, 7),

(24, 1),

(24, 6),

(25, 15),

(30, 1),

(31, 1),

(35, 16),

(35, 17),

(36, 16),

(37, 16),
(37, 17),

(39, 16),
(39, 17),

(40, 16),
(40, 17),

(42, 16),

(43, 17),

(44, 16);


```sql
CREATE TABLE Movie_Platforms (
    movie_id INT,
    platform_id INT,
    availability_date DATE NOT NULL,
    FOREIGN KEY (movie_id) REFERENCES Movies(movie_id),
    FOREIGN KEY (platform_id) REFERENCES Platforms(platform_id),
    PRIMARY KEY (movie_id, platform_id)
);


INSERT INTO Movie_Platforms (movie_id, platform_id, availability_date) VALUES
```

(1, 1, '2010-09-01'),

(1, 2, '2010-09-01'),

(1, 5, '2010-09-01'),

(2, 3, '2010-01-15'),

(2, 4, '2010-01-15'),

(2, 6, '2010-01-15'),

(2, 7, '2010-01-15'),

(2, 9, '2010-01-15'),

(3, 1, '2008-08-01'),

(3, 3, '2008-08-01'),

(3, 5, '2008-08-01'),

(3, 6, '2008-08-01'),

(4, 4, '1995-11-01'),

(5, 5, '2020-01-15'),

(5, 6, '2020-01-15'),

(6, 1, '2021-12-01'),

(6, 2, '2021-12-01'),

(6, 5, '2021-12-01'),

(7, 7, '2014-05-01'),

(8, 2, '2017-07-01'),

(8, 8, '2017-07-01'),

(9, 1, '2010-02-15'),

(9, 3, '2010-02-15'),

(9, 6, '2010-02-15'),

(10, 1, '2016-08-15'),

(10, 4, '2016-08-15'),

(10, 6, '2016-08-15'),

(11, 1, '2015-06-01'),

(12, 12, '2020-09-15'),

(13, 13, '2019-12-01'),

(14, 14, '2018-07-15'),

(15, 14, '2021-04-01'),

(16, 1, '2014-04-01'),

(16, 5, '2014-04-01'),

(16, 6, '2014-04-01'),

(17, 1, '2010-04-01'),

(17, 5, '2010-04-01'),

(17, 8, '2010-04-01'),

(18, 1, '2015-04-01'),

(20, 1, '2010-04-01'),

(21, 1, '2008-04-01'),

(22, 1, '2017-04-01'),

(23, 1, '2010-04-01'),

(24, 1, '2023-04-01'),

(25, 1, '2012-04-01'),

(26, 1, '2013-04-01'),

(28, 1, '2023-04-01'),

(30, 1, '2010-04-01'),

(31, 1, '2010-04-01'),

(33, 1, '2022-04-01'),

(35, 2, '2015-04-01'),
(35, 3, '2016-04-01'),
(35, 4, '2010-04-01'),

(36, 1, '2016-04-01'),
(36, 11, '2016-04-01'),

(37, 1, '2015-04-01'),
(37, 11, '2015-04-01'),

(38, 11, '2015-04-01'),

(39, 1, '2013-04-01'),
(39, 11, '2013-04-01'),

(40, 1, '2023-04-01'),
(40, 11, '2023-04-01'),

(42, 1, '2019-04-01'),
(42, 11, '2019-04-01'),

(43, 1, '2007-04-01'),
(43, 11, '2007-04-01'),

(44, 1, '2013-04-01'),
(44, 11, '2013-04-01');

```sql
alter table Directors
add email VARCHAR(50);


update Directors set email=case
when director_id =1 then 'Christopher_Nolan123@gmail.com'
when director_id =2 then 'Steve_Spielberg343@gmail.com'
when director_id =3 then 'Martin43@gmail.com'
when director_id =4 then 'Cameron99@gmail.com'
when director_id =10 then 'Taika_Waititi44@gamil.com'
when director_id =14 then 'Bong_Joon-ho1244@gmail.com'
when director_id =17 then 'Makoto_Shinkai@gmail.com'


else email
end;


alter table Directors
drop column email;
```

/*1. Display all Movies information from the database.*/

select*from Movies;

Output:

```
+----------+------------------------+--------------+----------+----------+------------+----------+----------------+
| movie_id | title                  | release_year | duration | genre_id | director_id | language | industry       |
+----------+------------------------+--------------+----------+----------+------------+----------+----------------+
|        1 | Inception              |         2010 | 148 min  |        6 |          1 | English  | Hollywood      |
|        2 | Titanic                |         1997 | 195 min  |        7 |          5 | English  | Hollywood      |
|        3 | The Dark Knight        |         2008 | 152 min  |        1 |          1 | English  | Hollywood      |
|        4 | Pulp Fiction           |         1994 | 154 min  |       12 |          4 | English  | Hollywood      |
|        5 | Parasite               |         2019 | 132 min  |        2 |         14 | Korean   | Korean Cinema  |
|        6 | Dune                   |         2021 | 155 min  |        6 |          8 | English  | Hollywood      |
|        7 | The Grand Budapest Hotel |       2014 | 99 min   |        3 |         11 | English  | Hollywood      |
|        8 | Wonder Woman           |         2017 | 141 min  |        8 |          9 | English  | Hollywood      |
|        9 | Avatar                 |         2009 | 162 min  |        6 |          5 | English  | Hollywood      |
|       10 | La La Land             |         2016 | 128 min  |       13 |          6 | English  | Hollywood      |
|       11 | Mad Max: Fury Road     |         2015 | 120 min  |        1 |         12 | English  | Hollywood      |
|       12 | Jojo Rabbit            |         2019 | 108 min  |        3 |         10 | English  | Hollywood      |
|       13 | The Irishman           |         2019 | 209 min  |       12 |          3 | English  | Hollywood      |
|       14 | The Departed           |         2006 | 151 min  |       12 |          3 | English  | Hollywood      |
|       15 | The Shape of Water     |         2017 | 123 min  |        9 |         15 | English  | Hollywood      |
|       16 | Interstellar           |         2014 | 169 min  |        6 |          1 | English  | Hollywood      |
|       17 | Shutter Island         |         2010 | 138 min  |       15 |          3 | English  | Hollywood      |
|       18 | The Revenant           |         2015 | 156 min  |        2 |          7 | English  | Hollywood      |
|       19 | Gravity                |         2013 | 91 min   |        6 |          7 | English  | Hollywood      |
|       20 | The Social Network     |         2010 | 120 min  |        2 |         12 | English  | Hollywood      |
|       21 | Slumdog Millionaire    |         2008 | 120 min  |        2 |         13 | English  | Bollywood      |
|       22 | Blade Runner 2049      |         2017 | 163 min  |        6 |          8 | English  | Hollywood      |
```

23	The Matrix	1999	136 min	6	12	English	Hollywood
24	Oppenheimer	2023	180 min	2	1	English	Hollywood
25	The Avengers	2012	143 min	1	5	English	Hollywood
26	The Wolf of Wall Street	2013	180 min	12	3	English	Hollywood
27	First Man	2018	107 min	6	6	English	Hollywood
28	Brbie	2023	114 min	7	9	English	Hollywood
29	Arrival	2016	116 min	6	8	English	Hollywood
30	The Godfather	1972	175 min	12	3	English	Hollywood
31	The Pianist	2002	150 min	14	7	English	Hollywood
32	Schindlers List	1993	195 min	14	2	English	Hollywood
33	Thor Love And Thunder	2022	119 min	1	10	English	Hollywood
34	Inside Out	2015	95 min	10	6	English	Hollywood
35	The Lion King	1994	88 min	10	11	English	Hollywood
36	Your Name	2016	112 min	10	17	Japanese	Anime
37	Spirited Away	2001	125 min	9	15	Japanese	Anime
38	Howls Moving Castle	2004	119 min	9	16	Japanese	Anime
39	The Wind Rises	2013	126 min	10	16	Japanese	Anime
40	The Boy And The Heron	2023	124 min	10	16	Japanese	Anime
41	Roma	2018	135 min	2	7	Spanish	Mexican Cinema
42	Weathering with You	2019	114 min	10	17	Japanese	Anime
43	5 Centimeters Per Second	2007	63 min	10	17	Japanese	Anime
44	The Garden Of Words	2013	43 min	10	17	Japanese	Anime

```
/*2. Display all Genres information from the
database.*/
```

select*from Genres;

Output:

```
+----------+-------------+
| genre_id | genre_name  |
+----------+-------------+
|        1 | Action      |
|        2 | Drama       |
|        3 | Comedy      |
|        4 | Horror      |
|        5 | Thriller    |
|        6 | Sci-Fi      |
|        7 | Romance     |
|        8 | Adventure   |
|        9 | Fantasy     |
|       10 | Animation   |
|       11 | Documentary |
|       12 | Crime       |
|       13 | Musical     |
|       14 | War         |
|       15 | Mystery     |
+----------+-------------+
```

```
/*3. Display all Platforms information from the
database.*/
```

select*from Platforms;

Output:

```
+-------------+-----------------+-------------------+
| platform_id | platform_name   | subscription_cost |
+-------------+-----------------+-------------------+
|           1 | Netflix         |             15.99 |
|           2 | Amazon Prime    |             12.99 |
|           3 | Hotstar         |             14.99 |
|           4 | Disney+         |             11.99 |
|           5 | HBO Max         |             16.99 |
|           6 | Apple TV+       |              9.99 |
|           7 | Peacock         |              8.99 |
|           8 | Paramount+      |             10.99 |
|           9 | YouTube Premium |             11.99 |
|          10 | Starz           |              8.99 |
|          11 | Crunchyroll     |              7.99 |
|          12 | Mubi            |             10.99 |
|          13 | Discovery+      |              9.99 |
|          14 | Showtime        |             11.99 |
+-------------+-----------------+-------------------+
```

```
/*4. Display all Awards information from the
database.*/
```

select*from Awards;

Output:

```
+----------+--------------+--------------------+
| award_id | award_name   | category           |
+----------+--------------+--------------------+
|        1 | Oscar        | Best Picture       |
|        2 | Oscar        | Best Director      |
|        3 | Golden Globe | Best Actor         |
|        4 | Golden Globe | Best Actress       |
|        5 | BAFTA        | Best Screenplay    |
|        6 | Oscar        | Best Visual Effects |
|        7 | Oscar        | Best Sound Editing |
|        8 | Emmy         | Best Series        |
|        9 | Oscar        | Best Costume Design |
|       10 | Golden Globe | Best Musical/Comedy |
|       11 | Oscar        | Best Cinematography |
|       12 | BAFTA        | Best Editing       |
|       13 | Cannes       | Palm d'Or          |
|       14 | Oscar        | Best Original Song |
|       15 | Golden Globe | Best Picture       |
|       16 | Golden Globe | Best Animated Film |
|       17 | Oscar        | Best Animated Film |
+----------+--------------+--------------------+
```

/*5. Display all Directors information from the
database.*/

select*from Directors;

Output:

```
+-------------+---------------------+------------+---------------+
| director_id | name                | birth_date | nationality   |
+-------------+---------------------+------------+---------------+
|           1 | Christopher Nolan   | 1970-07-30 | British       |
|           2 | Steven Spielberg    | 1946-12-18 | American      |
|           3 | Martin Scorsese     | 1942-11-17 | American      |
|           4 | Quentin Tarantino   | 1963-03-27 | American      |
|           5 | James Cameron       | 1954-08-16 | Canadian      |
|           6 | Damien Chazelle     | 1983-08-04 | American      |
|           7 | Alfonso Cuarón      | 1961-11-28 | Mexican       |
|           8 | Denis Villeneuve    | 1967-10-03 | Canadian      |
|           9 | Patty Jenkins       | 1971-07-24 | American      |
|          10 | Taika Waititi       | 1975-08-16 | New Zealander |
|          11 | Wes Anderson        | 1969-05-01 | American      |
|          12 | Kathryn Bigelow     | 1951-11-27 | American      |
|          13 | Danny Boyle         | 1956-10-20 | British       |
|          14 | Bong Joon-ho        | 1969-09-14 | South Korean  |
|          15 | Guillermo del Toro  | 1964-10-09 | Mexican       |
|          16 | Hayao Miyazaki      | 1941-01-05 | Japanese      |
|          17 | Makoto Shinkai      | 1973-02-09 | Japanese      |
+-------------+---------------------+------------+---------------+
```

/*6. Display all Actors information from the database.*/

select*from Actors;

Output:

```
+----------+---------------------+------------+-------------+-------------+
| actor_id | name                | birth_date | nationality | total_movie |
+----------+---------------------+------------+-------------+-------------+
|        1 | Leonardo DiCaprio   | 1974-11-11 | American    |          30 |
|        2 | Cillian Murphy      | 1976-05-25 | Irish       |          41 |
|        3 | Tom Hanks           | 1956-07-09 | American    |          40 |
|        4 | Robert De Niro      | 1943-08-17 | American    |          70 |
|        5 | Scarlett Johansson  | 1984-11-22 | American    |          35 |
|        6 | Margot Robbie       | 1990-07-02 | Australian  |          30 |
|        7 | Brad Pitt           | 1963-12-18 | American    |          45 |
|        8 | Gal Gadot           | 1990-07-02 | Israeli     |          25 |
|        9 | Denzel Washington   | 1954-12-28 | American    |          50 |
|       10 | Emma Stone          | 1988-11-06 | American    |          20 |
|       11 | Chris Hemsworth     | 1983-08-11 | Australian  |          25 |
|       12 | Sam Worthington     | 1976-08-02 | British     |          35 |
|       13 | Ryan Gosling        | 1980-11-12 | Canadian    |          30 |
|       14 | Anne Hathaway       | 1982-11-12 | American    |          25 |
|       15 | Christian Bale      | 1974-01-30 | British     |          40 |
|       16 | Samuel L. Jackson   | 1948-12-21 | American    |          55 |
|       17 | Robert Downey Jr    | 1965-04-04 | American    |          46 |
|       18 | Dev Patel           | 1984-02-18 | American    |          25 |
|       19 | Jason Momo          | 1979-02-18 | American    |          30 |
|       20 | Kate Winslet        | 1975-10-05 | British     |          30 |
|       21 | Tom Hardy           | 1977-09-15 | British     |          40 |
|       22 | Timothée Chalamet   | 1995-12-27 | American    |          23 |
|       23 | Matthew McConaughey | 1969-11-04 | American    |          36 |
|       24 | George Clooney      | 1961-05-06 | American    |          50 |
|       25 | Jesse Eisenberg     | 1983-10-05 | American    |          30 |
|       26 | Andrew Garfield     | 1983-10-20 | American    |          28 |
|       27 | Matt Damon          | 1970-10-08 | American    |          40 |
|       28 | Keanu Reeves        | 1964-09-02 | Canadian    |          38 |
|       29 | Jeremy Renner       | 1971-01-07 | American    |          43 |
|       30 | Matt Damon          | 1970-10-08 | American    |          40 |
+----------+---------------------+------------+-------------+-------------+
```

/*7. Display all Critics information from the database.*/

select*from Critics;

Output:

```
+-----------+-------------------+------------------------------------+------------+
| critic_id | critic_name       | email                              | join_date  |
+-----------+-------------------+------------------------------------+------------+
|         1 | Roger Ebert       | roger.ebert@example.com            | 1995-06-15 |
|         2 | Peter Travers     | peter.travers@example.com          | 2001-03-10 |
|         3 | Manohla Dargis    | manohla.dargis@example.com         | 2005-07-25 |
|         4 | A.O. Scott        | a.o.scott@example.com              | 2000-11-05 |
|         5 | Richard Roeper    | richard.roeper@example.com         | 2002-02-18 |
|         6 | Ann Hornaday      | ann.hornaday@example.com           | 2010-09-14 |
|         7 | Owen Gleiberman   | owen.gleiberman@example.com        | 2008-04-30 |
|         8 | Claudia Puig      | claudia.puig@example.com           | 2015-01-20 |
|         9 | Kenneth Turan     | kenneth.turan@example.com          | 2003-08-12 |
|        10 | Lisa Schwarzbaum  | lisa.schwarzbaum@example.com       | 2012-06-01 |
|        11 | Todd McCarthy     | todd.mccarthy@example.com          | 2007-05-10 |
|        12 | Stephanie Zacharek | stephanie.zacharek@example.com    | 2018-11-22 |
|        13 | James Berardinelli | james.berardinelli@example.com    | 1998-03-15 |
|        14 | Ty Burr           | ty.burr@example.com                | 2004-07-28 |
|        15 | Mick LaSalle      | mick.lasalle@example.com           | 2011-09-03 |
+-----------+-------------------+------------------------------------+------------+
```

/*8. Display all Movie_Actors information from the database.*/

select*from Movie_Actors;

Output:

```
+----------+----------+------------------+
| movie_id | actor_id | role_name        |
+----------+----------+------------------+
|        1 |        1 | Dom Cobb         |
|        2 |        1 | Jack Dawson      |
|        2 |       20 | Rosse            |
|        3 |        2 | Scarecrow        |
|        3 |       15 | Bruce Wayne      |
|        4 |       16 | Jules Winnfield  |
|        4 |       17 | Vincent Vega     |
|        5 |        5 | Kim Ki-taek      |
|        5 |        9 | Chung-sook       |
|        6 |       19 | Duncan           |
|        6 |       22 | Paul Atreides    |
|        7 |        7 | M. Gustave       |
|        8 |        8 | Diana Prince     |
|        9 |       12 | Jake Sully       |
|        9 |       20 | Ronal            |
|       10 |       10 | Mia Dolan        |
|       10 |       13 | Sebastian        |
|       11 |       21 | Max Rockatansky  |
|       12 |        5 | Rosie Betzler    |
|       13 |        4 | Frank Sheeran    |
|       14 |        1 | William          |
|       14 |       27 | Colin Sullivan   |
|       15 |        9 | Giles            |
|       15 |       15 | Elisa Esposito   |
```

16	14	Brand
16	22	Tom
16	23	Cooper
16	30	Mann
17	1	Teddy Daniels
18	1	Hugh Glass
18	21	John Fitzgerald
19	24	Matt Kowalski
20	25	Mark Zuckerberg
20	26	Eduardo Saverin
21	18	Jamal Malik
22	13	K
23	28	Neo
24	2	Oppenheimer
24	17	Lewis Strauss
24	30	Gen. Leslie
25	5	Natasha Romanoff
25	11	Thor
25	16	Nick Flury
25	17	Tony Stark
25	29	Clint
26	1	Jordan Belfort
26	6	Naomai Laoaglia
26	23	Mark Hanna
27	13	Neil Armstrong
28	6	Barbie
28	13	Ken
29	29	Ian Donnelly

```
/*9. Display all Ratings information of movies
from the database.*/
```

select*from Ratings;

Output:

```
+----------+----------+--------+------------+
| movie_id | critic_id | rating | rating_date |
+----------+----------+--------+------------+
|        1 |        1 |    9.0 | 2010-07-16 |
|        1 |        2 |    8.5 | 2010-07-18 |
|        2 |        3 |    8.0 | 2005-12-20 |
|        2 |        4 |    8.2 | 2000-12-22 |
|        3 |        4 |    9.3 | 2008-07-21 |
|        3 |        5 |    9.5 | 2008-07-20 |
|        4 |        7 |    9.0 | 2024-10-14 |
|        4 |        8 |    9.2 | 2024-10-16 |
|        5 |        9 |    9.6 | 2019-05-30 |
|        6 |       12 |   10.0 | 2021-10-22 |
|        7 |       11 |    8.5 | 2014-03-28 |
|        8 |       11 |    7.9 | 2017-06-02 |
|        9 |       13 |    8.0 | 2009-12-18 |
|       10 |       14 |    9.3 | 2016-12-09 |
|       11 |        1 |    8.5 | 2015-07-18 |
|       11 |        2 |    8.0 | 2015-12-20 |
|       12 |        3 |    7.2 | 1997-12-22 |
|       12 |        4 |    7.5 | 2019-07-20 |
|       14 |        5 |    9.0 | 2006-10-14 |
|       15 |        5 |    9.3 | 2017-07-21 |
|       17 |        7 |    9.2 | 2010-10-16 |
|       17 |        9 |    8.9 | 2010-10-22 |
|       17 |       14 |    9.6 | 2010-05-30 |
|       18 |       10 |    8.5 | 2015-03-28 |
|       18 |       15 |    8.9 | 2015-06-02 |
|       40 |       13 |    8.0 | 2023-12-18 |
|       41 |       14 |    9.3 | 2018-12-09 |
|       44 |       15 |   10.0 | 2013-05-15 |
+----------+----------+--------+------------+
```

/*10. Display all Movie_Awards information of movies from the database.*/

select*from Movie_Awards;

Output:

```
+----------+----------+
| movie_id | award_id |
+----------+----------+
|        2 |        1 |
|        5 |        1 |
|        6 |        1 |
|        9 |        1 |
|       10 |        1 |
|       16 |        1 |
|       21 |        1 |
|       24 |        1 |
|       30 |        1 |
|       31 |        1 |
|        2 |        2 |
|        5 |        2 |
|       18 |        3 |
|        2 |        5 |
|       16 |        5 |
|        1 |        6 |
|        3 |        6 |
|        6 |        6 |
|        9 |        6 |
|       16 |        6 |
|       24 |        6 |
|        6 |        7 |
|       21 |        7 |
|        1 |       11 |
|        3 |       11 |
|        6 |       11 |
|        9 |       11 |
|       16 |       11 |
|        6 |       12 |
|        6 |       15 |
```

```
|        17 |        15 |
|        25 |        15 |
|        35 |        16 |
|        36 |        16 |
|        37 |        16 |
|        39 |        16 |
|        40 |        16 |
|        42 |        16 |
|        44 |        16 |
|        35 |        17 |
|        37 |        17 |
|        39 |        17 |
|        40 |        17 |
|        43 |        17 |
+-----------+-----------+
```

/*11. Display all Movie_Platforms information from the database.*/

select*from Movie_Platforms;

Output:

```
+-----------+--------------+-------------------+
| movie_id  | platform_id  | availability_date |
+-----------+--------------+-------------------+
|         1 |            1 | 2010-09-01        |
|         1 |            2 | 2010-09-01        |
|         1 |            5 | 2010-09-01        |
|         2 |            3 | 2010-01-15        |
|         2 |            4 | 2010-01-15        |
|         2 |            6 | 2010-01-15        |
|         2 |            7 | 2010-01-15        |
|         2 |            9 | 2010-01-15        |
```

4	4	1995-11-01	
5	5	2020-01-15	
5	6	2020-01-15	
6	1	2021-12-01	
6	2	2021-12-01	
6	5	2021-12-01	
7	7	2014-05-01	
8	2	2017-07-01	
8	8	2017-07-01	
9	1	2010-02-15	
9	3	2010-02-15	
9	6	2010-02-15	
10	1	2016-08-15	
10	4	2016-08-15	
10	6	2016-08-15	
11	1	2015-06-01	
12	12	2020-09-15	
13	13	2019-12-01	
14	14	2018-07-15	
15	14	2021-04-01	
16	1	2014-04-01	
16	5	2014-04-01	
16	6	2014-04-01	
17	1	2010-04-01	
17	5	2010-04-01	
17	8	2010-04-01	
18	1	2015-04-01	
20	1	2010-04-01	
21	1	2008-04-01	
22	1	2017-04-01	
23	1	2010-04-01	
24	1	2023-04-01	
25	1	2012-04-01	
26	1	2013-04-01	
28	1	2023-04-01	
30	1	2010-04-01	

31	1	2010-04-01
33	1	2022-04-01
35	2	2015-04-01
35	3	2016-04-01
35	4	2010-04-01
36	1	2016-04-01
36	11	2016-04-01
37	1	2015-04-01
37	11	2015-04-01
38	11	2015-04-01
39	1	2013-04-01
39	11	2013-04-01
40	1	2023-04-01
40	11	2023-04-01
42	1	2019-04-01
42	11	2019-04-01
43	1	2007-04-01
43	11	2007-04-01
44	1	2013-04-01
44	11	2013-04-01
+----------+------------+------------------+

```
/*12. Display all movies directed by their
director.*/
```

select movie_id,title,Directors.director_id,name,birth_date,nationality

from Movies **natural join** Directors

order by movie_id;

Output:

```
+----------+-----------------------+-------------+-------------------+------------+--------------+
| movie_id | title                 | director_id | name              | birth_date | nationality  |
+----------+-----------------------+-------------+-------------------+------------+--------------+
|        1 | Inception             |           1 | Christopher Nolan | 1970-07-30 | British      |
|        2 | Titanic               |           5 | James Cameron     | 1954-08-16 | Canadian     |
|        3 | The Dark Knight       |           1 | Christopher Nolan | 1970-07-30 | British      |
|        4 | Pulp Fiction          |           4 | Quentin Tarantino | 1963-03-27 | American     |
|        5 | Parasite              |          14 | Bong Joon-ho      | 1969-09-14 | South Korean |
|        6 | Dune                  |           8 | Denis Villeneuve  | 1967-10-03 | Canadian     |
|        7 | The Grand Budapest Hotel |        11 | Wes Anderson      | 1969-05-01 | American     |
|        8 | Wonder Woman          |           9 | Patty Jenkins     | 1971-07-24 | American     |
|        9 | Avatar                |           5 | James Cameron     | 1954-08-16 | Canadian     |
|       10 | La La Land            |           6 | Damien Chazelle   | 1983-08-04 | American     |
|       11 | Mad Max: Fury Road    |          12 | Kathryn Bigelow   | 1951-11-27 | American     |
|       12 | Jojo Rabbit           |          10 | Taika Waititi     | 1975-08-16 | New Zealander|
|       13 | The Irishman          |           3 | Martin Scorsese   | 1942-11-17 | American     |
|       14 | The Departed          |           3 | Martin Scorsese   | 1942-11-17 | American     |
|       15 | The Shape of Water    |          15 | Guillermo del Toro| 1964-10-09 | Mexican      |
```

16	Interstellar	1	Christopher Nolan	1970-07-30	British
17	Shutter Island	3	Martin Scorsese	1942-11-17	American
18	The Revenant	7	Alfonso Cuarón	1961-11-28	Mexican
19	Gravity	7	Alfonso Cuarón	1961-11-28	Mexican
20	The Social Network	12	Kathryn Bigelow	1951-11-27	American
21	Slumdog Millionaire	13	Danny Boyle	1956-10-20	British
22	Blade Runner 2049	8	Denis Villeneuve	1967-10-03	Canadian
23	The Matrix	12	Kathryn Bigelow	1951-11-27	American
24	Oppenheimer	1	Christopher Nolan	1970-07-30	British
25	The Avengers	5	James Cameron	1954-08-16	Canadian
26	The Wolf of Wall Street	3	Martin Scorsese	1942-11-17	American
27	First Man	6	Damien Chazelle	1983-08-04	American
28	Brbie	9	Patty Jenkins	1971-07-24	American
29	Arrival	8	Denis Villeneuve	1967-10-03	Canadian
30	The Godfather	3	Martin Scorsese	1942-11-17	American
31	The Pianist	7	Alfonso Cuarón	1961-11-28	Mexican
32	Schindlers List	2	Steven Spielberg	1946-12-18	American
33	Thor Love And Thunder	10	Taika Waititi	1975-08-16	New Zealander
34	Inside Out	6	Damien Chazelle	1983-08-04	American
35	The Lion King	11	Wes Anderson	1969-05-01	American
36	Your Name	17	Makoto Shinkai	1973-02-09	Japanese
37	Spirited Away	15	Guillermo del Toro	1964-10-09	Mexican
38	Howls Moving Castle	16	Hayao Miyazaki	1941-01-05	Japanese
39	The Wind Rises	16	Hayao Miyazaki	1941-01-05	Japanese
40	The Boy And The Heron	16	Hayao Miyazaki	1941-01-05	Japanese
41	Roma	7	Alfonso Cuarón	1961-11-28	Mexican
42	Weathering with You	17	Makoto Shinkai	1973-02-09	Japanese
43	5 Centimeters Per Second	17	Makoto Shinkai	1973-02-09	Japanese
44	The Garden Of Words	17	Makoto Shinkai	1973-02-09	Japanese

/*13. Display all movies who won awards.*/

select Movies.movie_id,Movies.title,Awards.award_id,award_name,category

from Movies **join** Movie_Awards **join** Awards

on Movies.movie_id=Movie_Awards.movie_id

and Movie_Awards.award_id=Awards.award_id;

Output:

```
+----------+-----------------------------+----------+--------------+--------------------+
| movie_id | title                       | award_id | award_name   | category           |
+----------+-----------------------------+----------+--------------+--------------------+
|       43 | 5 Centimeters Per Second    |       17 | Oscar        | Best Animated Film |
|        9 | Avatar                      |       11 | Oscar        | Best Cinematography|
|        9 | Avatar                      |        6 | Oscar        | Best Visual Effects|
|        9 | Avatar                      |        1 | Oscar        | Best Picture       |
|        6 | Dune                        |        1 | Oscar        | Best Picture       |
|        6 | Dune                        |       15 | Golden Globe | Best Picture       |
|        6 | Dune                        |        6 | Oscar        | Best Visual Effects|
|        6 | Dune                        |       12 | BAFTA        | Best Editing       |
|        6 | Dune                        |       11 | Oscar        | Best Cinematography|
|        6 | Dune                        |        7 | Oscar        | Best Sound Editing |
|        1 | Inception                   |        6 | Oscar        | Best Visual Effects|
|        1 | Inception                   |       11 | Oscar        | Best Cinematography|
|       16 | Interstellar                |        6 | Oscar        | Best Visual Effects|
|       16 | Interstellar                |        5 | BAFTA        | Best Screenplay    |
|       16 | Interstellar                |       11 | Oscar        | Best Cinematography|
|       16 | Interstellar                |        1 | Oscar        | Best Picture       |
|       10 | La La Land                  |        1 | Oscar        | Best Picture       |
|       24 | Oppenheimer                 |        6 | Oscar        | Best Visual Effects|
|       24 | Oppenheimer                 |        1 | Oscar        | Best Picture       |
|        5 | Parasite                    |        1 | Oscar        | Best Picture       |
|        5 | Parasite                    |        2 | Oscar        | Best Director      |
```

```
|      17 | Shutter Island          |      15 | Golden Globe | Best Picture       |
|      21 | Slumdog Millionaire     |       7 | Oscar        | Best Sound Editing |
|      21 | Slumdog Millionaire     |       1 | Oscar        | Best Picture       |
|      37 | Spirited Away           |      17 | Oscar        | Best Animated Film |
|      37 | Spirited Away           |      16 | Golden Globe | Best Animated Film |
|      25 | The Avengers            |      15 | Golden Globe | Best Picture       |
|      40 | The Boy And The Heron   |      16 | Golden Globe | Best Animated Film |
|      40 | The Boy And The Heron   |      17 | Oscar        | Best Animated Film |
|       3 | The Dark Knight         |       6 | Oscar        | Best Visual Effects|
|       3 | The Dark Knight         |      11 | Oscar        | Best Cinematography|
|      44 | The Garden Of Words     |      16 | Golden Globe | Best Animated Film |
|      30 | The Godfather           |       1 | Oscar        | Best Picture       |
|      35 | The Lion King           |      16 | Golden Globe | Best Animated Film |
|      35 | The Lion King           |      17 | Oscar        | Best Animated Film |
|      31 | The Pianist             |       1 | Oscar        | Best Picture       |
|      18 | The Revenant            |       3 | Golden Globe | Best Actor         |
|      39 | The Wind Rises          |      17 | Oscar        | Best Animated Film |
|      39 | The Wind Rises          |      16 | Golden Globe | Best Animated Film |
|       2 | Titanic                 |       1 | Oscar        | Best Picture       |
|       2 | Titanic                 |       2 | Oscar        | Best Director      |
|       2 | Titanic                 |       5 | BAFTA        | Best Screenplay    |
|      42 | Weathering with You     |      16 | Golden Globe | Best Animated Film |
|      36 | Your Name               |      16 | Golden Globe | Best Animated Film |
+---------+-------------------------+---------+--------------+--------------------+
```

/*14. Display the lowest rating movie from the database.*/

select **min**(rating) as 'Lowest Rating'

from movies,critics,Ratings

where Movies.movie_id=Ratings.movie_id

and Ratings.critic_id=critics.critic_id;

Output:

```
+--------------+
| Lowest Rating |
+--------------+
|          7.2 |
+--------------+
```

/*15. Display movies based on genre which is grater then 4 */

select Genre_name,count(movie_id) as 'No Of Movies'

from Movies **natural join** Genres

group by Genre_name

having count(movie_id)>4;

Output:

```
+-------------+--------------+
| Genre_name | No Of Movies |
+-------------+--------------+
| Drama       |            6 |
| Sci-Fi      |            9 |
| Animation   |            8 |
| Crime       |            5 |
+-------------+--------------+
```

/*16. Show the total number of films available by industry.*/

SELECT industry, COUNT(movie_id) AS movie_count

FROM Movies

GROUP BY industry

ORDER BY movie_count DESC;

Output:

```
+----------------+-------------+
| industry       | movie_count |
+----------------+-------------+
| Hollywood      |          33 |
| Anime          |           8 |
| Korean Cinema  |           1 |
| Bollywood      |           1 |
| Mexican Cinema |           1 |
+----------------+-------------+
```

/*17. Display critic name who gave lowest rate to a movie from the database.*/

select title,critic_name,rating

from Movies m join critics c join Ratings r

on c.critic_id=r.critic_id

and m.movie_id=r.movie_id

and rating in

(select min(rating)

from Movies m join Ratings r

on m.movie_id=r.movie_id);

Output:

```
+------------+-----------------+--------+
| title      | critic_name     | rating |
+------------+-----------------+--------+
| Jojo Rabbit | Manohla Dargis |    7.2 |
+------------+-----------------+--------+
```

/*18. Display movie list which is directed by Christopher Nolan or James Cameron .*/

(select title,name from movies **natural join** Directors where name='Christopher Nolan')

union

(select title,name from movies **natural join** Directors where name='James Cameron');

Output:

```
+-----------------+--------------------+
| title           | name               |
+-----------------+--------------------+
| Inception       | Christopher Nolan  |
| The Dark Knight | Christopher Nolan  |
| Interstellar    | Christopher Nolan  |
| Oppenheimer     | Christopher Nolan  |
| Titanic         | James Cameron      |
| Avatar          | James Cameron      |
| The Avengers    | James Cameron      |
+-----------------+--------------------+
```

/*19. **Display actors list who's name start with 'T' and who acted in a movie that title start with 'D' .*/**

select a.actor_id,name,title

from Actors as a, Movie_Actors as ma,Movies as m

where a.actor_id=ma.actor_id

and ma.movie_id=m.movie_id

and a.name **like** 'T%' and title **like** 'D%';

Output:

```
+----------+--------------------+-------+
| actor_id | name               | title |
+----------+--------------------+-------+
|       22 | Timothée Chalamet  | Dune  |
+----------+--------------------+-------+
```

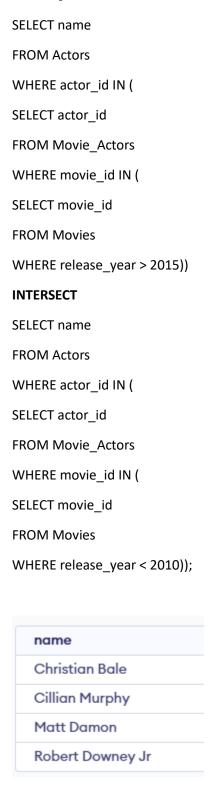# /*20.Actors with roles across different genres.*/

SELECT a.name AS 'Actor Name', COUNT(DISTINCT g.genre_id) AS genre_count

FROM Actors a JOIN Movie_Actors ma JOIN Movies m JOIN Genres g

ON a.actor_id = ma.actor_id

and ma.movie_id = m.movie_id

and m.genre_id = g.genre_id

GROUP BY a.name

having genre_count>2

ORDER BY genre_count DESC;

Output:

```
+--------------------+-------------+
| Actor Name         | genre_count |
+--------------------+-------------+
| Leonardo DiCaprio  |           5 |
| Matt Damon         |           3 |
| Robert Downey Jr   |           3 |
| Ryan Gosling       |           3 |
| Scarlett Johansson |           3 |
+--------------------+-------------+
```

/*21.Find actors who have acted in movies released after 2015 and are also present in movies released before 2010.*/

SELECT name

FROM Actors

WHERE actor_id IN (

SELECT actor_id

FROM Movie_Actors

WHERE movie_id IN (

SELECT movie_id

FROM Movies

WHERE release_year > 2015))

INTERSECT

SELECT name

FROM Actors

WHERE actor_id IN (

SELECT actor_id

FROM Movie_Actors

WHERE movie_id IN (

SELECT movie_id

FROM Movies

WHERE release_year < 2010));

name
Christian Bale
Cillian Murphy
Matt Damon
Robert Downey Jr

/*22.Find actors who act in all type of movie genres.*/

SELECT a.name AS actor_name

FROM Actors a

JOIN Movie_Actors ma ON a.actor_id = ma.actor_id

JOIN Movies m ON ma.movie_id = m.movie_id

JOIN Genres g ON m.genre_id = g.genre_id

GROUP BY a.actor_id, a.name

HAVING COUNT(DISTINCT g.genre_id) = (SELECT COUNT(*) FROM Genres);

Output:

Program did not output anything!

/*23. Lists movies with average ratings above 9 by more than two critics.*/

SELECT m.title

FROM Movies m

JOIN Ratings r ON m.movie_id = r.movie_id

GROUP BY m.title

HAVING COUNT(r.critic_id) > 2 AND AVG(r.rating) > 9.0;

Output:

```
+----------------+
| title          |
+----------------+
| Shutter Island |
+----------------+
```

/*24.Find movies that have an average rating higher than the overall average rating.*/

```
SELECT title
FROM Movies
WHERE movie_id IN (
    SELECT movie_id
    FROM Ratings
    GROUP BY movie_id
    HAVING AVG(rating) > (
        SELECT AVG(rating) FROM Ratings
    )
);
```

Output:

```
+--------------------+
| title              |
+--------------------+
| The Dark Knight    |
| Pulp Fiction       |
| Parasite           |
| Dune               |
| La La Land         |
| The Departed       |
| The Shape of Water |
| Shutter Island     |
| Roma               |
| The Garden Of Words |
+--------------------+
```

/*25.Top 5 Critics Who Rated the Most Movies .*/

SELECT critic_name

FROM Critics

WHERE critic_id

IN (

SELECT critic_id

FROM Ratings

GROUP BY critic_id

ORDER BY COUNT(movie_id) DESC

)

limit 5;

Output:

```
+----------------+
| critic_name    |
+----------------+
| Roger Ebert    |
| Peter Travers  |
| Manohla Dargis |
| A.O. Scott     |
| Richard Roeper |
+----------------+
```

/*26.Find the youngest actor who act more then 20 movies and act more then 1 type of genre.*/

SELECT name, total_movie, (2024- YEAR(birth_date)) AS age

FROM Actors

where total_movie > 20

and actor_id in

(

SELECT a.actor_id

FROM Actors a

JOIN Movie_Actors ma ON a.actor_id = ma.actor_id

JOIN Movies m ON ma.movie_id = m.movie_id

JOIN Genres g ON m.genre_id = g.genre_id

GROUP BY a.actor_id, a.name

HAVING COUNT(DISTINCT g.genre_id)>1

)

ORDER BY age ASC

limit 1;

Output:

```
+----------------+-------------+------+
| name           | total_movie | age  |
+----------------+-------------+------+
| Margot Robbie  |          30 |   34 |
+----------------+-------------+------+
```