Ejercicio 1

1.1. Calcular el rating máximo y promedio por género.

```
ALTER TABLE data_movies

RENAME COLUMN imdb_rating TO rating;

SELECT DISTINCT genre kind_genre, MIN(rating) AS min_rating,

ROUND(AVG(rating),2) AS avg_rating, MAX(rating) AS max_rating

FROM data_movies

WHERE genre IS NOT NULL AND rating IS NOT NULL

GROUP BY genre;
```

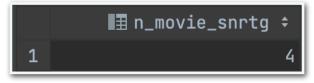
	■ kind_genre	■ min_rating ≎	■ avg_rating ÷	■ max_rating ≎
1	action	5.8	7.41	9
2	comedy	4.4	7.14	8.6
3	horror	4.6	6.39	8.4
4	romance	4.2	6.71	8.8
5	drama	5.9	7.56	8.7

1.2. Cantidad de películas que no tienen ratings

```
SELECT COUNT(name) as n_movie_snrtg

FROM data_movies

WHERE rating IS NULL;
```



1.3 Películas que tiene el menor ratings, sin considerar las películas que no poseen ratings.

```
SELECT name, rating

FROM data_movies

WHERE rating IS NOT NULL AND rating < 5

ORDER BY rating ASC;
```

	■ name ÷	■ rating ÷
1	Fifty Shades of Grey	4.2
2	Alvin and the Chipmunks: The Squeakquel	4.4
3	Anaconda	4.6
4	The Twilight Saga: New Moon	4.6
5	The Haunting	4.9
6	Scooby-Doo 2: Monsters Unleashed	4.9
7	The Twilight Saga: Eclipse	4.9
8	The Twilight Saga: Breaking Dawn - Part 1	4.9

1.4 Que año fue el que obtuvo el mayor rating promedio, considerando que se tengan a lo menos 6 películas ese año.

```
SELECT DISTINCT year year_movie, COUNT(year) as num_movie, ROUND(AVG(rating),2) as avg_rating

FROM data_movies

WHERE year IS NOT NULL AND rating IS NOT NULL

GROUP BY year

HAVING num_movie > 6

ORDER BY avg_rating DESC;
```

	I ≣ year_movie ≎	I ≣ num_movie ÷	■ avg_rating ÷
1	2014	13	7.42
2	2012	12	7.17
3	2015	8	7.16
4	2013	14	7.08
5	2003	7	7.01
6	2008	10	7
7	2001	9	6.97
8	2010	11	6.93
9	2002	8	6.91
10	2005	11	6.86
11	2011	10	6.82
12	2007	11	6.78
13	2000	7	6.73
14	2006	8	6.71
15	2009	14	6.68
16	1999	11	6.61
17	2004	7	6.49
18	1997	8	6.49

1.5. Calcular el ratings promedio por año, que posea una puntuación media entre 6,5 y 7,9. Muestre los primeros 5 años que tienen un mayor rating promedio.

```
SELECT DISTINCT year year_movie, COUNT(year) as num_movie, ROUND(AVG(rating),2) as avg_rating

FROM data_movies

WHERE year IS NOT NULL AND rating IS NOT NULL

GROUP BY year

HAVING num_movie >= 6.5 AND num_movie <= 7.9

ORDER BY avg_rating DESC;
```

	I ≣ year_movie ≎	I ∄ num_movie ≎	I ∄ avg_rating ‡
1	2003	7	7.01
2	2000	7	6.73
3	2004	7	6.49

Ejercicio 2

2.1. Mostraremos los 5 pilotos ganadores de las últimas 5 carrera disponibles en la tabla de resultados, con el nombre de la carrera y la respectiva fecha.

```
WITH five_races as
       SELECT races.raceId, name, date
       FROM races
       WHERE races.raceId IS NOT NULL AND date IS NOT NULL
       ORDER BY date DESC
   five_winers as
   ( -- 5 ganadores de las ultimas 5 carreras
       SELECT results.raceId, driverId, positionOrder
       FROM results
       WHERE positionOrder = 1
   five_drivers as
       FROM five_winers
       RIGHT JOIN five_races
       ON five_winers.raceId = five_races.raceId
       -- Tabla resultado Nombre Carrera, fecha y Piloto Campeón
       FROM five_drivers
       LEFT JOIN drivers
       ON five_drivers.driverId = drivers.driverId;
```

ĺ		I ∄ name	‡	II date	‡	■ forename	‡	I ≣ surname	\$
ı	1	Abu Dhabi Grand Prix		2017-11-26		Valtteri		Bottas	
ı	2	Brazilian Grand Prix		2017-11-12		Sebastian		Vettel	
I	3	Mexican Grand Prix		2017-10-29		Max		Verstappen	
I	4	United States Grand Prix		2017-10-22		Lewis		Hamilton	
I	5	Japanese Grand Prix		2017-10-08		Lewis		Hamilton	

2.2. Mostraremos los 5 pilotos lideres en puntos entre el año 2000 y el año 2017, con su fecha de nacimiento, nacionalidad y puntaje acumulado.

```
WITH race_years as
       SELECT races.raceId
       FROM races
       WHERE year >= 2000 AND year <= 2017
   race_drivers as
       SELECT results.raceId, results.driverId, points
       FROM results
       WHERE points IS NOT NULL AND points != 0
   drivers_point as
       SELECT driverId, SUM(points) puntaje_total
       FROM race_years
       LEFT JOIN race_drivers
       ON race_years.raceId = race_drivers.raceId
       ORDER BY puntaje_total DESC
       LIMIT 5
   SELECT forename, surname, dob, nationality, puntaje_total
   FROM drivers_point
   LEFT JOIN drivers
   ON drivers_point.driverId = drivers.driverId
   ORDER BY puntaje_total DESC;
```

Г		II forename ≎	∎ surname ÷	II dob ÷	■ nationality ÷	II puntaje_total ≎
ш	1	Lewis	Hamilton	07/01/1985	British	2610
П	2	Sebastian	Vettel	03/07/1987	German	2425
ш	3	Fernando	Alonso	29/07/1981	Spanish	1849
П		Nico	Rosberg	27/06/1985	German	1594.5
L		Kimi	R @ _ikķnen	17/10/1979	Finnish	1565

2.3. y 2.4. Considerando los años 1950 y 2071, mostraremos los 5 pilotos mas ganadores de la historia, y la cantidad de victorias del piloto más ganador.

```
WITH a_races as
   ( -- Registros de los campeones de cada carrera en (results)
       SELECT results.raceId, driverId, positionOrder
       FROM results
       WHERE positionOrder = 1
   a_drivers as
      SELECT races.raceId, date
      FROM races
   a_champion as
       SELECT driverId, SUM(positionOrder) num_victories
       FROM a_races
       LEFT JOIN a_drivers
       ON a_races.raceId = a_drivers.raceId
       ORDER BY num_victories DESC
   SELECT forename, surname, num_victories
   FROM drivers
   RIGHT JOIN a_champion
   ON drivers.driverId = a_champion.driverId;
```

Г		■ forename	‡	I ∄ surname	\$	■ num_victories ÷
ı	1	Michael		Schumacher		91
ı	2	Lewis		Hamilton		62
ı	3	Alain		Prost		51
ı	4	Sebastian		Vettel		47
	5	Ayrton		Senna		41

2.5. Mostraremos el tiempo transcurrido entre la primera y la última victoria del piloto mas ganador, encontrado en el punto 2.3 y 2.4.

```
■ `Años entre 1ra y ultima victoria de M.Schumacher` ÷
1
```

2.6. Mostraremos los 5 países con mas puntos.

	I nationality	‡	■ puntos_total_nationality ÷
1	British		8077
2	German		7146
3	Brazilian		3423
4	Finnish		3008
5	French		2806