Assignment #3

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7) Between 1995 and 2009 (include 1995 and 2009), what are the top 2 distributors which have the most movies released in the movies dataset? Only show 2 row in the result.

```
#7
SELECT distributor, COUNT(movie) as NumberofMoviesReleased
FROM distributors join movies
USING (DistributorID)
WHERE year>=1995 and year<=2009
GROUP BY distributor
ORDER BY COUNT(movie) DESC
limit 2;
```
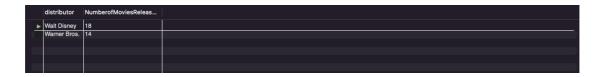
distributor	NumberofMoviesReleas...
Walt Disney	18
Warner Bros.	14

8) List the year which has an even number of top grossing movies in the movies dataset. Sort the result in ascending order of the year.

```
#8
SELECT year, COUNT(movie)
FROM movies
GROUP BY year
HAVING COUNT(movie)%2=0
ORDER BY year ASC;
```

year	COUNT(movie)
1998	4
2008	6
2018	8
2020	2
2021	6

9) For each year between 2015 and 2021, show each year's top grossers movie names and the ticket sold for each movie. Also list the tickets sold of that year in total for all movies in the tickets table, and the average ticket price for the year. Sort the result in descending order of the year and ascending order of each movie's tickets sold within each year. Can you see any influence of the COVID-19 pandemic on tickets sales for the movie industry?

```
#9
SELECT tickets.year, movie, TicketsSold, TotTicketSold, AvgTicketPrice
FROM movies join tickets
USING (Year)
WHERE year>=2015 and year<=2021
ORDER BY tickets.year DESC, TicketsSold ASC;
```

year	movie	TicketsSold	TotTicketSold	AvgTicketPri...
2021	Eternals	17960134	423774881	9.16
2021	F9: The Fast Saga	18866515	423774881	9.16
2021	Black Widow	20027443	423774881	9.16
2021	Venom: Let There be Carnage	23185282	423774881	9.16
2021	Shang-Chi and the Legend of the Ten Rings	24486728	423774881	9.16
2021	Spider-Man: No Way Home	62484708	423774881	9.16
2020	Sonic The Hedgehog	15928731	223638958	NULL
2020	Bad Boys For Life	22316359	223638958	NULL
2019	Captain Marvel	46597144	1228541629	9.16
2019	Toy Story 4	47384062	1228541629	9.16
2019	Frozen II	49174621	1228541629	9.16
2019	The Lion King	59349131	1228541629	9.16
2019	Avengers: Endgame	93708843	1228541629	9.16
2018	Mission: Impossible—Fallout	24166751	1311536128	9.11
2018	Dr. Seuss' The Grinch	29596282	1311536128	9.11
2018	Deadpool 2	35621600	1311536128	9.11
2018	Jurassic World: Fallen Kingdom	45852883	1311536128	9.11
2018	Incredibles 2	66803704	1311536128	9.11
2018	Avengers: Infinity War	74513225	1311536128	9.11
2018	Black Panther	76845177	1311536128	9.11
2018	Ant-Man and the Wasp	216648740	1311536128	9.11
2017	Jumanji: Welcome to the Jungle	25851411	1225639761	8.97
2017	It	36508556	1225639761	8.97
2017	Spider-Man: Homecoming	37257652	1225639761	8.97
2017	Guardians of the Galaxy Vol 2	43457424	1225639761	8.97
2017	Wonder Woman	45993691	1225639761	8.97
2017	Beauty and the Beast	56188870	1225639761	8.97
2017	Star Wars Ep. VIII: The Last Jedi	57660910	1225639761	8.97

year	movie	TicketsSold	TotTicketSold	AvgTicketPri...
2016	The Jungle Book	NULL	1302556378	8.65
2016	Rogue One: A Star Wars Story	NULL	1302556378	8.65
2016	Zootopia	39452976	1302556378	8.65
2016	Deadpool	41973492	1302556378	8.65
2016	The Secret Life of Pets	42587783	1302556378	8.65
2016	Captain America: Civil War	47177381	1302556378	8.65
2016	Finding Dory	56219140	1302556378	8.65
2015	Furious 7	41875091	1323356776	8.43
2015	Inside Out	42284900	1323356776	8.43
2015	Avengers: Age of Ultron	54449094	1323356776	8.43
2015	Jurassic World	77374926	1323356776	8.43
2015	Star Wars Ep. VII: The Force Awakens	88043765	1323356776	8.43

As the result shows, COVID-19 cause less ticket sales from 2020, not only the total tickets sold of the year but also the ticket sold for each movie.

10) List all the genre name with the corresponding sum of tickets sold for each genre's top grossing movies released between 2015 and 2019 in the movies dataset, and the total tickets sold for each genre between 2015 and 2019. Sort the result by genre name.

```
#10
SELECT genre, SUM(TicketsSold) as "each genre's top grossing movies", GenTickets as "total tickets sold for each genre"
FROM genres join movies
USING (GenreID)
WHERE year>=2015 and year <= 2019
GROUP BY genre, GenTickets
ORDER BY genre;
```

genre	each genre's top grossing movies	total tickets sold for each g...
Action	1111728086	1781942224
Adventure	496193713	1899771242
Horror	36508556	421866441
Musical	56188870	188308747

11) For the above question, filter out the results which the genre market share is higher than 10%. Sort the result by genre.

```
#11
SELECT genre, SUM(TicketsSold) as "each genre's top grossing movies", GenTickets as "total tickets sold for each genre"
FROM genres join movies
USING (GenreID)
WHERE GenMarketShare >0.1 and year>=2015 and year <= 2019
GROUP BY genre, GenTickets
ORDER BY genre;
```

genre	each genre's top grossing movies	total tickets sold for each g...	
Action	1111728086	1781942224	
Adventure	496193713	1899771242	

12)   What is the most common release day of week for the highest grosser movies? What is the least? Only include 1 column in the result. Sort the result by the most common release day of week in descending.

```
#12
SELECT DayOfWeek
FROM movies
GROUP BY DayOfWeek
ORDER BY COUNT(movie) DESC;
```

DayOfWeek	
Friday	
Wednesday	
Thursday	
Tuesday	
Saturday	
Monday	
Sunday	

13) How much time did you spend on this assignment?

About 2.5 hours.