

Assignment #4. - Q7-14

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7) Find the years which the total tickets sold for all movies is lower than the average of the total ticket sold for all years. List the year with corresponding average ticket price, exclude the year which has no value for average ticket price. Sort the result in descending order of the ticket price and descending order of the year.

```
#7
SELECT year, TotTicketSold, avgticketprice
FROM tickets
WHERE avgticketprice is not null AND TotTicketSold<
      (SELECT avg(TotTicketSold)FROM tickets)
ORDER BY avgticketprice DESC, Year DESC;
```

year	TotTicketSold	avgticketpri...
2021	423774881	9.16
2019	1228541629	9.16
2017	1225639761	8.97
2014	1257402920	8.17

8) List all top grossing movies which have information for either the tickets sold or the total revenue for year or both. List the movie name, genre name, distributor name. Sort the result by ascending order of movie. Only show the first 20 rows.

```
#8
SELECT Movie, Genre, Distributor
FROM movies, genres, distributors
WHERE movies.genreID=genres.genreID AND movies.distributorID=distributors.distributorID
      AND (TicketsSold is not null OR TotalForYear is not null)
ORDER BY movie
limit 20;
```

Movie	Genre	Distributor
Ace Ventura: When Nature Calls	Comedy	Warner Bros.
Air Force One	Action	Sony Pictures
Alice in Wonderland	Adventure	Walt Disney
Ant-Man and the Wasp	Action	Walt Disney
Apollo 13	Drama	Universal
Armageddon	Adventure	Walt Disney
Austin Powers: The Spy Who Sh...	Comedy	New Line
Avatar	Action	20th Century...
Avengers: Age of Ultron	Action	Walt Disney
Avengers: Endgame	Adventure	Walt Disney
Avengers: Infinity War	Action	Walt Disney
Bad Boys For Life	Action	Sony Pictures
Batman Forever	Drama	Warner Bros.
Beauty and the Beast	Musical	Walt Disney
Black Panther	Action	Walt Disney
Black Widow	Action	Walt Disney
Bruce Almighty	Comedy	Universal
Captain America: Civil War	Action	Walt Disney
Captain America: The Winter Sol...	Action	Walt Disney
Captain Marvel	Action	Walt Disney

9) How many days passed between the release date of the top grossing movie in 1998 with the earliest release date and the date of the top grossing movie in 2010 with the latest released date? Hint: use subqueries.

```
#9
SELECT datediff((SELECT MIN(Date)FROM movies WHERE Year=1998),
                (SELECT MAX(Date)FROM movies WHERE Year=2010)) as DaysPassed;
```

DaysPassed
-4398

10) Looking at top grossing movies released by the distributor with “w” as the first letter in their name, find the greatest and the least value of the movies’ tickets sold, and the difference between these two values. We only want one row with this information.

```
#10
SELECT MAX(TicketsSold),min(TicketsSold),MAX(TicketsSold)-min(TicketsSold) as difference
FROM movies right join distributors
USING (DistributorID)
WHERE distributor like "w%";
```

MAX(TicketsSol...	min(TicketsSol...	difference
216648740	17960134	198688606

11) For distributors with the letter “a” in their names and the total gross is lower than the average value of the total gross for distributors which the name starts with “w”, list their names, the corresponding market share, and their top movies. Sort the result in descending order of the market share value.

```
#11
SELECT Distributor, DisMarketShare, DisTopMovie
FROM distributors
WHERE distributor like "%a%" AND TotalGross<
      (SELECT avg(TotalGross)FROM distributors
      WHERE distributor like "w%")
ORDER BY DisMarketShare DESC;
```

Distributor	DisMarketShare	DisTopMovie
Warner Bros.	0.1516	Harry Potter and the Deathly Hallows: Part II
Universal	0.1202	Jurassic World
Paramount Pl...	0.1046	Titanic
Lionsgate	0.0398	The Hunger Games: Catching Fire
Dreamworks...	0.0175	Shrek 2
Miramax	0.0157	Chicago
Summit Enter...	0.0068	The Twilight Saga: New Moon
Newmarket Fl...	0.0019	The Passion of the Christ

12) Identify the years that have more movies made than the average movies made. For those years, count the number of movies made by genre. Display results by year and genre for genres that have more than 3 movies made in those years that have more movies made than the average movies made. HINT: This probably requires subqueries. Looking at the results, would you say there is a preference a given genre during these years that produce a lot of movies?

```
#12
SELECT Year, Genre, COUNT(MovieID) as CountByGenre
FROM tickets join (movies left join (SELECT genreID, genre, COUNT(MovieID)
FROM genres join movies USING (GenreID)
GROUP BY genreID) as a USING(genreID))
USING (Year)
WHERE MoviesMade > (SELECT avg(MoviesMade) FROM tickets)
GROUP BY Year, Genre
HAVING COUNT(MovieID) > 3 ;
```

Year	Genre	CountByGenre	
2002	Adventure	4	
2004	Adventure	4	
2007	Adventure	4	
2008	Adventure	5	
2016	Adventure	4	
2018	Action	6	

>Yes, adventure movies are preferred to be produced.

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

2hours