

-- Q1 What are the top 3 movies with the highest revenue ever?

```
SELECT title,  
revenue  
FROM movies_metadata_id  
ORDER BY  
revenue DESC  
LIMIT 3;
```

--ANSWER: Avatar, Star Wars, The Avengers

-- Q2 What is the movie with the highest revenue of the year 2016?

```
SELECT title,  
revenue,  
release_date  
FROM movies_metadata_id  
WHERE YEAR (release_date) = 2016  
ORDER BY  
revenue DESC  
LIMIT 1
```

--ANSWER: Captain America: Civil War

-- Q3 Get a query to have for each year the number of movies released, the highest revenue for the year and the sum of revenue of all the movies

```
SELECT  
YEAR(release_date),  
MAX(revenue) as max_revenue,  
SUM(revenue) As sum_total,  
COUNT(*) AS nb_movies  
FROM movies_metadata_id  
GROUP BY YEAR (release_date)  
ORDER BY YEAR (release_date) DESC
```

-- Q4 Create a Query to get the top movie (highest revenue) for each year

```
SELECT  
revenue as movie_revenue,  
title as movie_title,  
YEAR(release_date) as yr  
FROM  
(  
SELECT  
YEAR(release_date) as yr,
```

```

MAX(revenue) AS max_revenue
FROM
movies_metadata_id
GROUP BY YEAR(release_date)
) t1
JOIN movies_metadata_id t2
ON t2.revenue = t1.max_revenue AND t2.release_date = t1.yr
WHERE max_revenue > 0
ORDER BY YEAR (release_date) DESC
LIMIT 5

```

--ANSWER: Beauty and the Beast, Captain America: Civil War, Star Wars: The Force Awakens, Transformers: Age of Extinction, Frozen

-- Q5 Who is the main actor who played in movies that brought the most total revenue which is not part of a collection, and what are his top 3 movies ?

```

SELECT
SUM(m.revenue),
c.name
FROM movies_metadata_id m
JOIN cast_id c
ON m.id = c.id
WHERE c.`order` = 0 AND belongs_to_collection is NULL
GROUP BY c.name
ORDER BY SUM(m.revenue) DESC LIMIT 1

```

```

SELECT
title,
revenue
FROM movies_metadata_id m
JOIN cast_id c
ON m.id = c.id
WHERE c.name = 'Leonardo DiCaprio' AND c.`order` = 0 AND belongs_to_collection is NULL
GROUP BY
title,
revenue
ORDER BY revenue DESC LIMIT 3

```

--ANSWER: Leonardo di Caprio (Inception, The Revenant, The Wolf of Wall Street)

-- Q6 Who is the main actor who played in at least 5 movies with the highest average revenue per movie (what is his average revenue)?

```

SELECT
COUNT(name) as nb_movies,
name,
ROUND((SUM(revenue)/ COUNT(name)),2) as avr_rev
FROM movies_metadata_id m
JOIN cast_id c
ON m.id = c.id
WHERE c.`order` = 0
GROUP BY name
HAVING count(name) >= 5
ORDER BY avr_rev DESC LIMIT 1

```

--ANSWER Daniel Radcliffe (15 movies, 522.868.442,33)

Q7 For each Movie Genre, for the release since 2015, give the movie title with the highest revenue and its total revenue.

```

SELECT
c.*,
d.title
FROM
(
SELECT -- create first subquery that joins 2 tables together (genres_id &
movies_METADATA_ID) AND returns genre and maximum revenue from THEM
name as genre,
MAX(revenue) as max_rev
FROM genres_id a
JOIN movies_metadata_id b
ON a.id = b.id
WHERE YEAR(b.release_date) >= 2015 AND revenue !=0
GROUP BY name
) c
JOIN movies_metadata_id d -- Join again with movies metadata_id table to get the title of
the movie
ON c.max_rev = d.revenue
ORDER BY d.revenue DESC

```