W12-Lab10: SQL Basics

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1. Find all movie titles released after the year 2000.
    a. Input
        i. SELECT title, release_date
        ii. FROM movies
        iii. WHERE release_date > '2000-01-01';
    b.

	title	release_date
1	Avatar	2009-12-10
2	Pirates of the Caribbean: At World's End	2007-05-19
3	Spectre	2015-10-26
4	The Dark Knight Rises	2012-07-16
5	John Carter	2012-03-07
6	Spider-Man 3	2007-05-01
7	Tangled	2010-11-24
8	Avengers: Age of Ultron	2015-04-22
9	Harry Potter and the Half-Blood Prince	2009-07-07

```
Execution finished without errors.
Result: 3465 rows returned in 60ms
At line 2:
SELECT title, release_date
```

2. Show all movies with a budget between 1,000,000 and 10,000,000.
    a. Input
        i. SELECT *
        ii. FROM movies
        iii. WHERE budget BETWEEN 1000000 AND 10000000;

b.

	id	original_title	budget	popularity	release_date
1	43911	The Spanish Prisoner	10000000	3	1997-09-08
2	44014	Creepshow	8000000	13	1982-11-12
3	44089	Don Gato: El inicio de la pandilla	8000000	0	2015-10-30
4	44252	Red Dawn	4200000	11	1984-08-10
5	44459	Lolita	2000000	23	1962-06-13
6	44705	Pinocchio	2600000	46	1940-02-23
7	44745	The Karate Kid	8000000	28	1984-06-22
8	44857	Le fabuleux destin d'Amélie Poulain	10000000	73	2001-04-25

```
Execution finished without errors.
Result: 921 rows returned in 3ms
At line 7:
SELECT *
```

3. Display movie titles that contain the word 'Star', along with their release dates and vote average.
    a. Input
        i. SELECT title, release_date, vote_average
        ii. FROM movies
        iii. WHERE title LIKE '%Star%';

b.

	title	release_date	vote_average
1	Star Trek Into Darkness	2013-05-05	7.4
2	Star Trek Beyond	2016-07-07	6.6
3	Star Trek	2009-05-06	7.4
4	Star Wars: Episode III - Revenge of the Sith	2005-05-17	7.1
5	Star Wars: Episode II - Attack of the Clones	2002-05-15	6.4
6	Star Wars: Episode I - The Phantom Menace	1999-05-19	6.3
7	Starship Troopers	1997-11-06	6.7
8	Star Trek: Insurrection	1998-12-10	6.3
9	Stardust	2007-08-09	7.1

```
Execution finished without errors.
Result: 34 rows returned in 4ms
At line 12:
SELECT title, release_date, vote_average
```

4. 4. Retrieve the titles of movies with a vote average greater than 7, ordered by vote count in descending order, and limit the results to the top 5.
    a. Input

i. SELECT title, vote_count
ii. FROM movies
iii. WHERE vote_average > 7
iv. ORDER BY vote_count DESC
v. LIMIT 5;

b.

	title	vote_count
1	Inception	13752
2	The Dark Knight	12002
3	Avatar	11800
4	The Avengers	11776
5	Deadpool	10995

```
Execution finished without errors.
Result: 5 rows returned in 8ms
At line 17:
SELECT title, vote_count
```

5. Display the movie titles and their release dates for movies released on or after '2000-01-01' with a budget of 0, ordered by release date.
    a. Input
        i. SELECT title, release_date
        ii. FROM movies
        iii. WHERE release_date >= '2000-01-01' AND budget = 0
        iv. ORDER BY release_date;

b.

	title	release_date
1	The Widow of Saint-Pierre	2000-01-01
2	Chuck & Buck	2000-01-21
3	Urbania	2000-01-24
4	Anatomy	2000-02-03
5	Snow Day	2000-02-11
6	Deterrence	2000-03-10
7	The Young Unknowns	2000-03-12
8	Here On Earth	2000-03-23
9	The Yards	2000-04-27

```
Execution finished without errors.
Result: 777 rows returned in 7ms
At line 24:
SELECT title, release_date
```

6. Retrieve the top 5 most popular movies with the title ending in 'Wars', released before '1980-01-01'.
    a. Input
        i. SELECT title, popularity
        ii. FROM movies
        iii. WHERE title LIKE '%Wars' AND release_date < '1980-01-01'
        iv. ORDER BY popularity DESC
        v. LIMIT 5;

b.

	title	popularity
1	Star Wars	126

```
Execution finished without errors.
Result: 1 rows returned in 8ms
At line 30:
SELECT title, popularity
FROM movies
WHERE title LIKE '%Wars' AND release_date < '19
ORDER BY popularity DESC
LIMIT 5;
```

7. Retrieve the titles of movies released in the 90s (1990-1999) that had no revenue recorded.
    a. Input
        i. SELECT title, release_date
        ii. FROM movies

iii. WHERE release_date BETWEEN '1990-01-01' AND '1999-12-31' AND revenue = 0;

	title	release_date
1	Volcano	1997-04-25
2	Déjà Vu	1998-04-22
3	Mighty Joe Young	1998-12-25

```
Execution finished without errors.
Result: 218 rows returned in 4ms
At line 37:
SELECT title, release_date
FROM movies
WHERE release_date BETWEEN '1990-01-01' AND '1999-12-31' AND revenue = 0;
```

b.

8. Retrieve the titles of movies that have 'Star' in the title, were released before the year 2000, and have more than 100 votes.
   a. Input
      i. SELECT title, release_date
      ii. FROM movies
      iii. WHERE title LIKE '%Star%' AND release_date < '2000-01-01' AND vote_count > 100;

	title	release_date
1	Star Wars: Episode I - The Phantom Menace	1999-05-19
2	Starship Troopers	1997-11-06
3	Star Trek: Insurrection	1998-12-10

```
Execution finished without errors.
Result: 13 rows returned in 3ms
At line 42:
SELECT title, release_date
FROM movies
WHERE title LIKE '%Star%' AND release_date < '2000-01-01' AND vote_count > 100;
```

   b.
9. Find the movie titles with exactly 7.5 vote average, with vote counts greater than 50 but fewer than 100, or with revenue over 1 million but under 2 million
   a. Input
      i. SELECT title, vote_average, vote_count, revenue
      ii. FROM movies
      iii. WHERE (vote_average = 7.5 AND vote_count > 50 AND vote_count < 100)
      iv. OR (revenue > 1000000 AND revenue < 2000000);

	title	vote_average	vote_count	revenue
1	Jane Got a Gun	5.4	285	1397284
2	Marci X	3.3	12	1675706
3	Renaissance	6.7	77	1831348

```
Execution finished without errors.
Result: 54 rows returned in 7ms
At line 47:
SELECT title, vote_average, vote_count, revenue
FROM movies
WHERE (vote_average = 7.5 AND vote_count > 50 AND vote_count < 100)
   OR (revenue > 1000000 AND revenue < 2000000);
```

b.

10. List all directors with 'James' in their name who do not direct in the 'Directing' department or have a 'gender' value of anything other than '2'.
    a. Input
        i. SELECT *
        ii. FROM directors
        iii. WHERE name LIKE '%James%' AND (department != 'Directing' OR gender != 2);

	name	id	gender	uid	department
1	James Bobin	4834	0	26205	Directing
2	James Schamus	5742	0	1617	Directing
3	James Watkins	5842	0	63306	Directing

```
Execution finished without errors.
Result: 13 rows returned in 3ms
At line 53:
SELECT *
FROM directors
WHERE name LIKE '%James%' AND (department != 'Directing' OR gender != 2);
```

b.

11. List the movie titles that have 'Love' in the title, with a release date after 2010, having vote counts between 100 and 300, or with a popularity score above 20 but below 50.
    a. Input
        i. SELECT title, release_date, vote_count, popularity
        ii. FROM movies
        iii. WHERE (title LIKE '%Love%' AND release_date > '2010-01-01' AND vote_count BETWEEN 100 AND 300)
        iv. OR (title LIKE '%Love%' AND popularity > 20 AND popularity < 50);

	title	release_date	vote_count	popularity
1	The Lovely Bones	2009-12-26	1065	29
2	Eat Pray Love	2010-08-12	636	28
3	From Paris with Love	2010-02-05	675	27

```
Execution finished without errors.
Result: 14 rows returned in 3ms
At line 58:
SELECT title, release_date, vote_count, popularity
FROM movies
WHERE (title LIKE '%Love%' AND release_date > '2010-01-01' AND vote_count BETWEEN 10
AND 300)
   OR (title LIKE '%Love%' AND popularity > 20 AND popularity < 50);
```

b.

12. Display the movie titles with either an average vote of exactly 6.5 or an average vote of exactly 8.5, with more than 100 votes, and having a revenue of over 50 million or less than 10 million
    a. Input
        i. SELECT title, vote_average, vote_count, revenue
        ii. FROM movies
        iii. WHERE (vote_average = 6.5 OR vote_average = 8.5) AND vote_count > 100
        iv. AND (revenue > 50000000 OR revenue < 10000000);

	title	vote_average	vote_count	revenue
1	Man of Steel	6.5	6359	662845518
2	The Amazing Spider-Man	6.5	6586	752215857
3	Jurassic World	6.5	8662	1513528810

```
Execution finished without errors.
Result: 121 rows returned in 3ms
At line 64:
SELECT title, vote_average, vote_count, revenue
FROM movies
WHERE (vote_average = 6.5 OR vote_average = 8.5) AND vote_count > 100
  AND (revenue > 50000000 OR revenue < 10000000);
```

b.