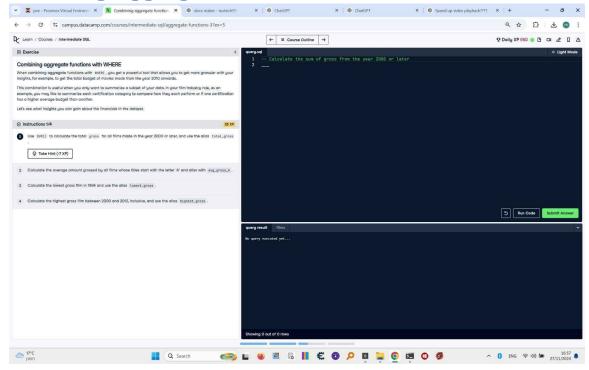
## **Combining Aggregate Functions with WHERE**



## Question

- 1. Use SUM() to calculate the total gross for all films made in the year 2000 or later, and use the alias total gross.
- 2. Calculate the average amount grossed by all films whose titles start with the letter 'A' and alias with avg\_gross\_A.
- 3. Calculate the lowest gross film in 1994 and use the alias lowest gross.
- 4. Calculate the highest gross film between 2000 and 2012, inclusive, and use the alias highest gross.

## **Answer**

- -- Step 1: Calculate the total gross for films from 2000 or later SELECT SUM(gross) AS total\_gross FROM films WHERE release year >= 2000;
- -- Step 2: Calculate the average gross for films starting with 'A' SELECT AVG(gross) AS avg\_gross\_A FROM films WHERE title LIKE 'A%';
- -- Step 3: Find the lowest gross film in 1994 SELECT MIN(gross) AS lowest\_gross

FROM films
WHERE release\_year = 1994;

-- Step 4: Find the highest gross film between 2000 and 2012 SELECT MAX(gross) AS highest\_gross FROM films
WHERE release year BETWEEN 2000 AND 2012;

## **Code Explanation**

- 1. SELECT SUM(gross) AS total\_gross: Calculates the total sum of the 'gross' column for films made in the year 2000 or later.
- 2. WHERE release\_year >= 2000: Filters the rows to include only films released in the year 2000 or later.
- 3. SELECT AVG(gross) AS avg\_gross\_A: Calculates the average of the 'gross' column for films whose titles start with the letter 'A'.
- 4. WHERE title LIKE 'A%': Filters the rows to include only films where the title starts with 'A'.
- 5. SELECT MIN(gross) AS lowest\_gross: Finds the minimum value in the 'gross' column for films released in 1994.
- 6. WHERE release\_year = 1994: Filters the rows to include only films released in 1994.
- 7. SELECT MAX(gross) AS highest\_gross: Finds the maximum value in the 'gross' column for films released between 2000 and 2012.
- 8. WHERE release\_year BETWEEN 2000 AND 2012: Filters the rows to include only films released between 2000 and 2012, inclusive.