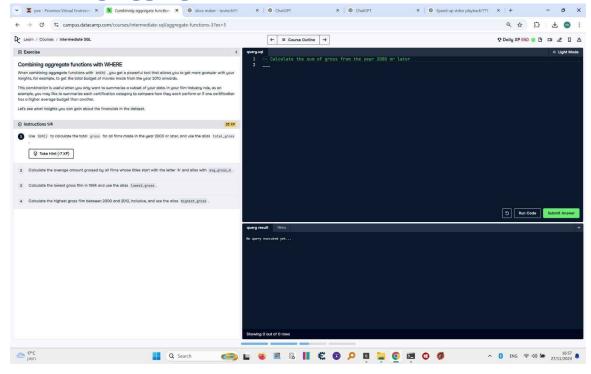# Combining Aggregate Functions with WHERE

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

```sql
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.