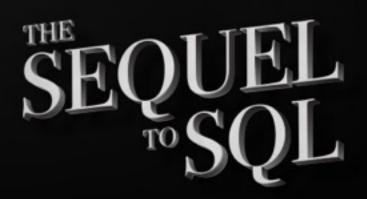
The Sequel to SQL Level 1 – Section 1

Common Aggregate Functions



Finding the Number of Rows

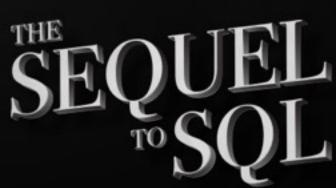
How do we find the total number of rows in the Movies table?

Movies title	cost	duration
Gone With the Wind	390,000	220
Frankenstein	3,000,000	50
Creature From the Black Lagoon	500,000	79
NULL	100	10

SELECT *
FROM Movies;

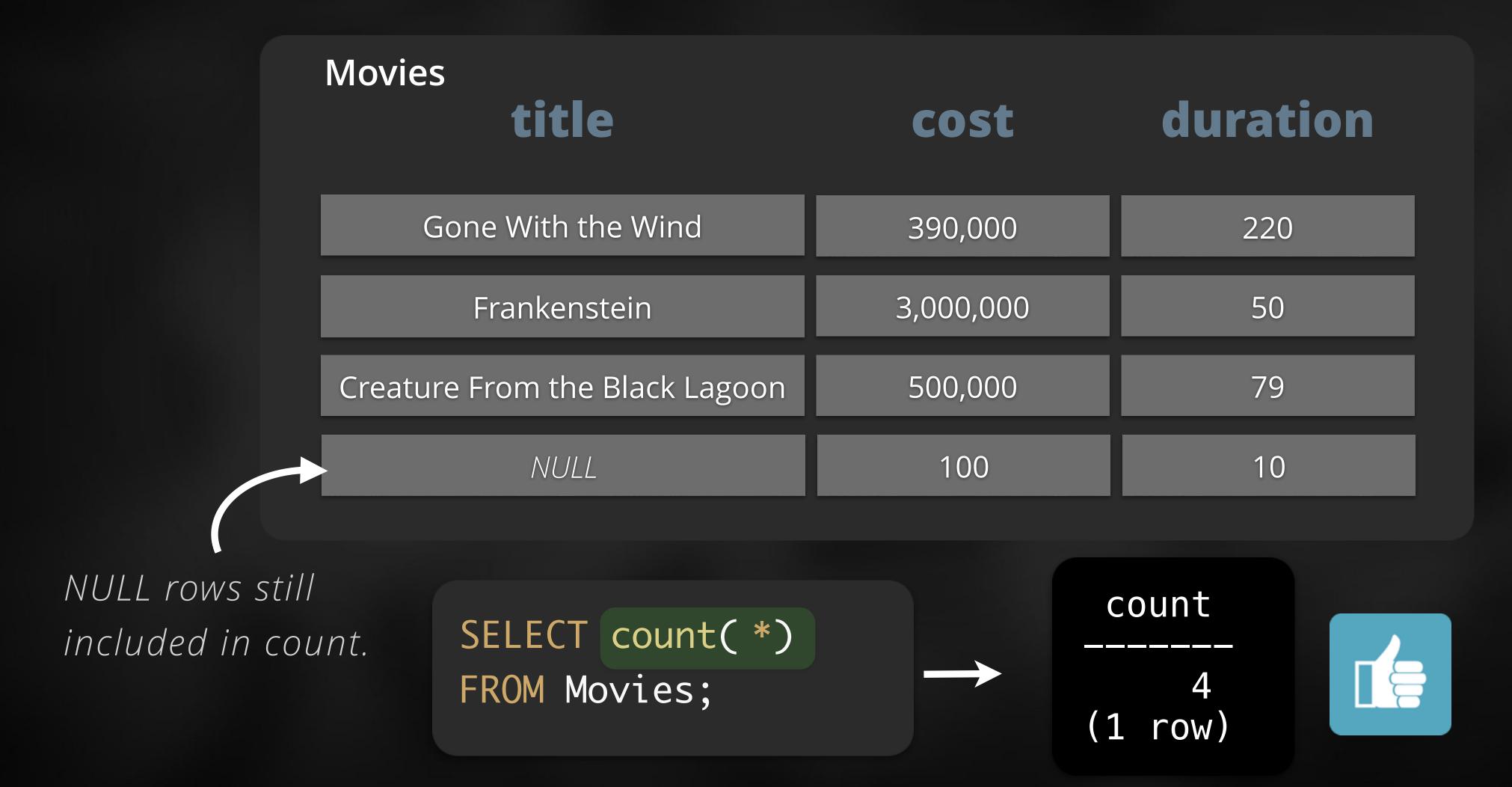


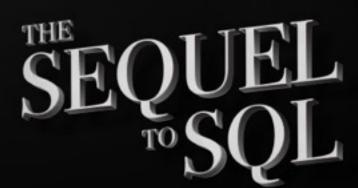
We could pull a list and count them programmatically, but there's a better way.



Using the COUNT Function

Here's a way to get the total number of rows in the table.





Introducing the SQL Aggregate Functions

```
SELECT count(column_name)
FROM table_name;
```

SELECT sum(column_name)
FROM table_name;

SELECT avg(column_name)
FROM table_name;

SELECT max(column_name)
FROM table_name;

SELECT min(column_name)
FROM table_name;

Returns the **total number of rows** that match our search.

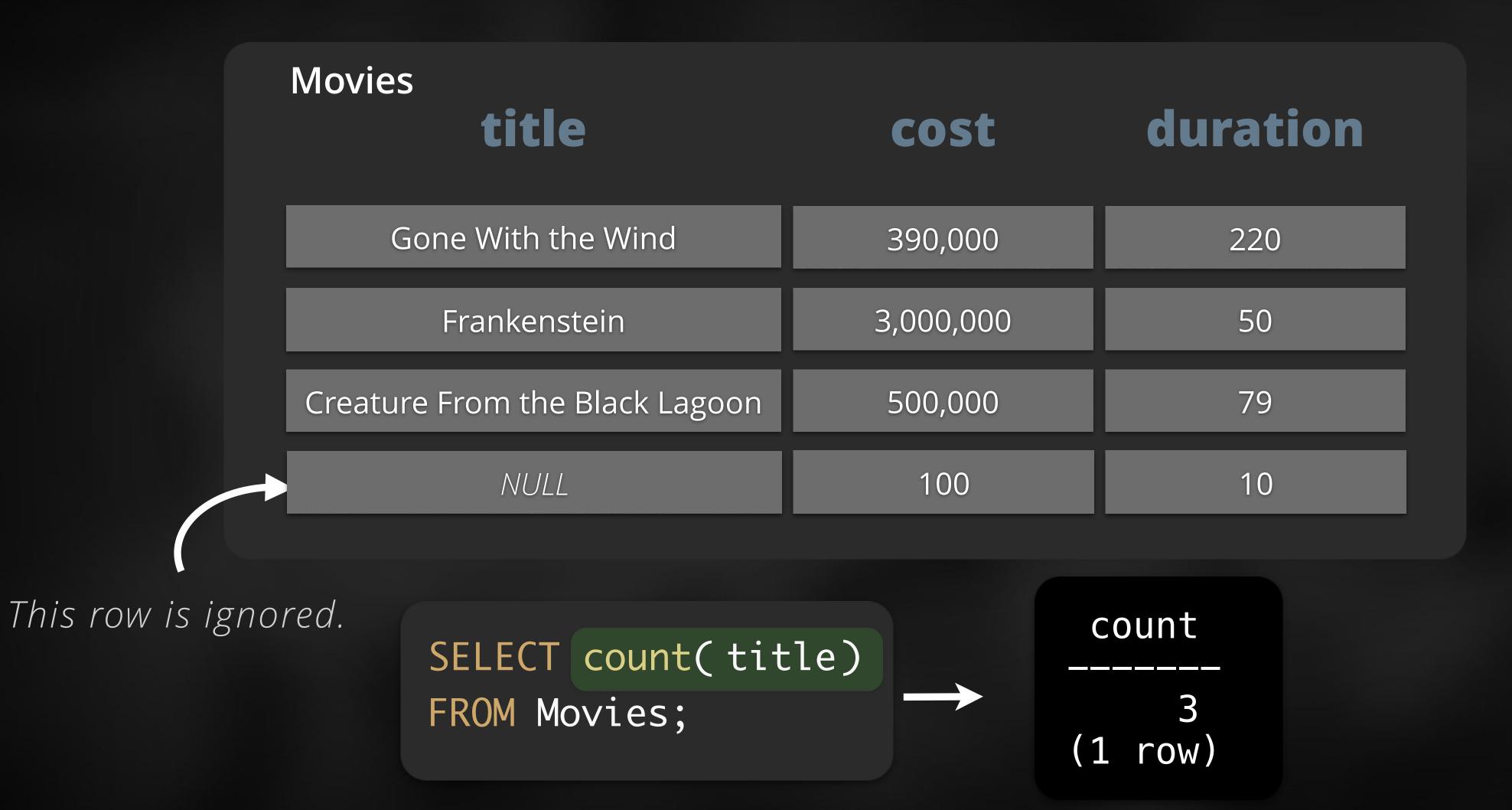
Returns the added sum of values for a group of rows.

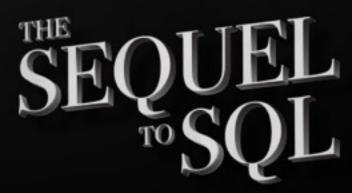
Returns the calculated average value for a group of rows.

Returns the **largest value** in a group of rows.

Returns the **smallest value** in a group of rows.

Using COUNT With a Column Name

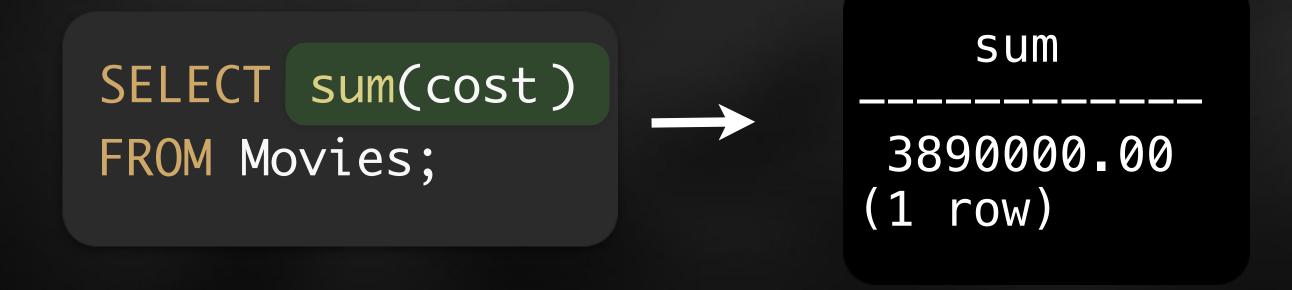


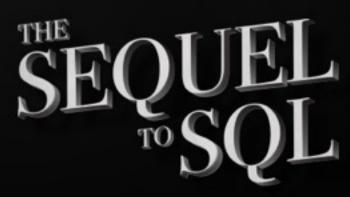


Using the SUM Function

How do we find the total cost of producing all our movies?

Movies			
title	cost	duration	
Gone With the Wind	390,000	220	
Frankenstein	3,000,000	50	
Creature From the Black Lagoon	500,000	79	



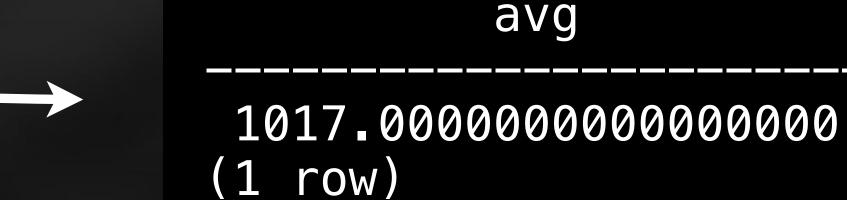


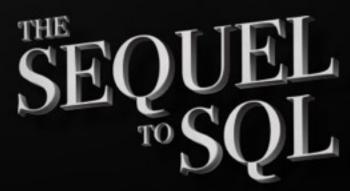
Using the AVG Function

How do we find the average number of tickets that were sold for all movies?

Movies title	tickets
Gone With the Wind	1,500
Frankenstein	750
Creature From the Black Lagoon	801

SELECT avg(tickets)
FROM Movies;



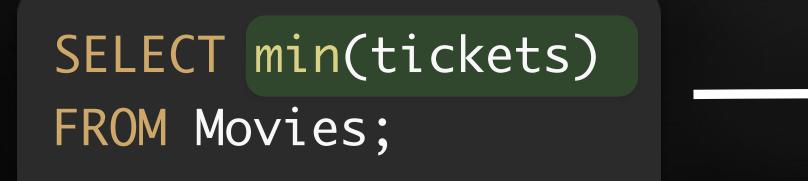


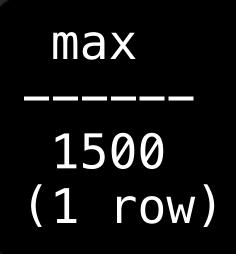
Using the MAX or MIN Functions

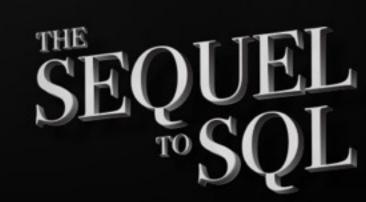
How do we find the highest and lowest number of tickets sold?

Movies title		tickets	
Gone With the	Wind	1,500	
Frankenste	n	750	
Creature From the Bl	ack Lagoon	801	









Using the MAX and MIN Functions Together

Movies title	e	tickets	
Gone With t	he Wind	1,500	
Frankens	stein	750	
Creature From the	Black Lagoon	801	

```
SELECT max(tickets), min(tickets)
FROM Movies;
```

	max	min
(1	1500 row)	750

