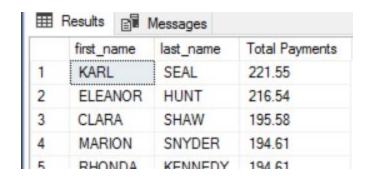# 5_4 LAB

Time: 2 Hours

Aggregate Functions

Query 1
Write a query that shows all CUSTOMERS and the SUM TOTAL of all PAYMENTS
Order by the top paying customers first.

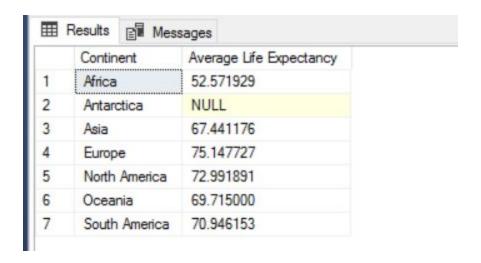|	first_name	last_name	Total Payments
1	KARL	SEAL	221.55
2	ELEANOR	HUNT	216.54
3	CLARA	SHAW	195.58
4	MARION	SNYDER	194.61
5	RHONDA	KENNEDY	194.61

Query 2
Write a query that shows a TOTAL COUNT of all FILMS grouped by the film rating
Order by rating.

	rating	Film Count
1	G	179
2	NC-17	210
3	PG	194
4	PG-13	223
5	R	195

Query 3
Using the World Database, write a query that shows the AVERAGE life expectancy grouped by each continent
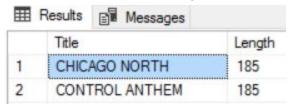Order By Continent Ascending (lowest value first)

	Continent	Average Life Expectancy
1	Africa	52.571929
2	Antarctica	NULL
3	Asia	67.441176
4	Europe	75.147727
5	North America	72.991891
6	Oceania	69.715000
7	South America	70.946153

Query 4

Using the world Database, write a query that shows the Total Count of all CITIES, grouped by COUNTRY name
Order By Country Name

	name	Count of Cities
1	Afghanistan	4
2	Albania	1
3	Algeria	18
4	American Samoa	2
5	Andorra	1
6	Angola	5
7	Anguilla	2
8	Antigua and Barbuda	1
9	Argentina	57

Query 5

Using the Sakila database, write a query to find the film with the LONGEST length. Note, there are several films of equal length.
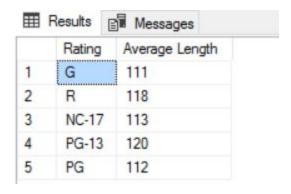
	Title	Length
1	CHICAGO NORTH	185
2	CONTROL ANTHEM	185

Query 6

Write a query to find the films with the SHORTEST length

	Title	Length
1	ALIEN CENTER	46
2	IRON MOON	46
3	KWAI HOMEWARD	46
4	LABYRINTH LEAGUE	46
5	RIDGEMONT SUBMARINE	46

Query 7

Write a query to the average length of all films. Group by rating.

	Rating	Average Length
1	G	111
2	R	118
3	NC-17	113
4	PG-13	120
5	PG	112

Built-In Functions

Query 8
Get the length of all film titles, and order by the film with the longest title first.

	title	Letters
1	ARACHNOPHOBIA ROLLERCOASTER	27
2	SATISFACTION CONFIDENTIAL	25
3	TRAINSPOTTING STRANGERS	23
4	DESPERATE TRAINSPOTTING	23

Query 9
Write a SELECT query that converts all of the film titles to lower case.

Query 10
Now, write an UPDATE Query that updates all the film titles to lower case, making the change permanent.

Query 11
Write a Select query that finds all films with "bird" in the title.

Query 12
Write a select query that replaces the word "bird" in these films with dog.

Query 13
Now, write an update query that replaces the word "bird" in the title with "dog'