ASSIGNMENT -1

1. **Do we have actors in the actor table that share the full name and if yes display those shared names.**

   Yes, we have 2 actors who share common name

   It can be explained in the following way

dvdrental/postgres@PostgreSQL 13

Query Editor Query History

```
SELECT  DISTINCT (first_name||last_name) FROM actor
GROUP BY first_name||Last_name;
```

Data Output Explain Messages Notifications

	?column? text
191	MegHawke
192	JohnSuvari
193	RussellClose
194	ParkerGoldberg
195	PenelopePink...
196	GeneMckellen
197	ScarlettDamon
198	HenryBerry
199	SusanDavis

Here total no of actors are 199 without shared names

dvdrental/postgres@PostgreSQL 13

Query Editor | Query History

```
SELECT first_name||Last_name FROM actor;
```

Data Output | Explain | Messages | Notifications

	?column? text
193	BurtTemple
194	MerylAllen
195	JayneSilverst...
196	BelaWalken
197	ReeseWest
198	MaryKeitel
199	JuliaFawcett
200	ThoraTemple

Here total no of actors are 200

Which is two actors have the same name

2. **Return the customer IDs of customers who have spent at least $110 with the staff member who has an ID of 2.**

```
SELECT customer_id,SUM(amount) FROM payment
WHERE staff_id=2
GROUP BY customer_id HAVING SUM(amount)>=110;
```

Data Output | Explain | Messages | Notifications

	customer_id smallint	sum numeric
1	187	110.81
2	148	110.78

3. **How many films begin with the letter J?**

```
SELECT COUNT(*) FROM film WHERE title ILIKE 'j%';
```

Data Output | Explain | Messages | Notifications

	count bigint
1	20

4. **What customer has the highest customer ID number whose name starts with an 'E' and has an address ID lower than 500?**

Eddie Tomlin has the highest customer id

```
SELECT customer_id,first_name,last_name,address_id FROM customer
WHERE first_name ILIKE 'E%' AND address_id<500
ORDER BY customer_id DESC;
```

Data Output Explain Messages Notifications

	customer_id [PK] integer	first_name character varying (45)	last_name character varying (45)	address_id smallint
1	434	Eddie	Tomlin	439
2	432	Edwin	Burk	437
3	396	Earl	Shanks	401
4	384	Ernest	Stepp	389
5	378	Eugene	Culpepper	383
6	331	Eric	Robert	336
7	317	Edward	Baugh	322

or we can use the following method

```
SELECT customer_id,first_name,last_name,address_id FROM customer
WHERE first_name ILIKE 'E%' AND address_id<500
ORDER BY customer_id DESC LIMIT 1;
```

Data Output Explain Messages Notifications

	customer_id [PK] integer	first_name character varying (45)	last_name character varying (45)	address_id smallint
1	434	Eddie	Tomlin	439

5. **How many films have the word Truman somewhere in the title?**

```
SELECT COUNT(*) FROM film WHERE title ILIKE '%Truman%';
```

Data Output | Explain | Messages | Notifications

	count bigint
1	5

6. **Display the total amount paid by all customers in the payment table.**

```
SELECT SUM(amount) FROM PAYMENT;
```

Data Output | Explain | Messages | Notifications

	sum numeric
1	61312.04

7. **Display the total amount paid by each customer in the payment table.**

```
SELECT customer_id,SUM(amount) FROM payment
GROUP BY customer_id
ORDER BY customer_id;
```

Data Output | Explain | Messages | Notifications

	customer_id smallint	sum numeric
1	1	114.70
2	2	123.74
3	3	130.76
4	4	81.78
5	5	134.65
6	6	84.75
7	7	130.72

8. **What is the highest total_payment done.**

```
SELECT customer_id,SUM(amount) FROM payment
GROUP BY customer_id
ORDER BY SUM(amount) DESC LIMIT 1;
```

Data Output | Explain | Messages | Notifications

	customer_id smallint	sum numeric
1	148	211.55

9. Which customers have not rented any movies so far.

dvdrental/postgres@PostgreSQL 13

Query Editor | Query History

```
SELECT customer_id, first_name, last_name, active, email FROM customer
WHERE customer_id
IN (SELECT customer_id FROM rental WHERE active=0);
```

Data Output | Explain | Messages | Notifications

	customer_id [PK] integer	first_name character varying (45)	last_name character varying (45)	active integer	email character varying (50)
1	16	Sandra	Martin	0	sandra.martin@sakilacusto...
2	64	Judith	Cox	0	judith.cox@sakilacustomer....
3	124	Sheila	Wells	0	sheila.wells@sakilacustome...
4	169	Erica	Matthews	0	erica.matthews@sakilacust...
5	241	Heidi	Larson	0	heidi.larson@sakilacustome...
6	271	Penny	Neal	0	penny.neal@sakilacustomer....
7	315	Kenneth	Gooden	0	kenneth.gooden@sakilacust...
8	368	Harry	Arce	0	harry.arce@sakilacustomer....
9	406	Nathan	Runyon	0	nathan.runyon@sakilacusto...

10. How many payment transactions were greater than $5.00?

```
SELECT COUNT(*) FROM PAYMENT WHERE amount>5;
```

Data Output | Explain | Messages | Notifications

	count bigint
1	3618