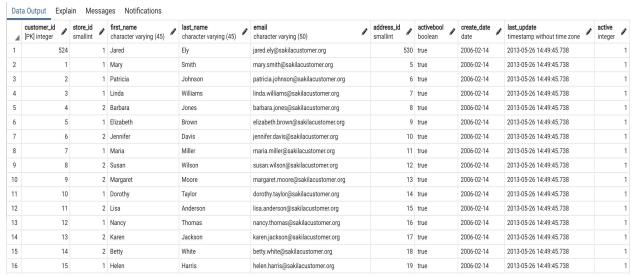
Using the dvdrental tables, answer the following questions with a SQL query. To get full credit, please past your SQL Code and a screenshot of it completing.

1. Write a select statement to return all columns and rows from the customer table.



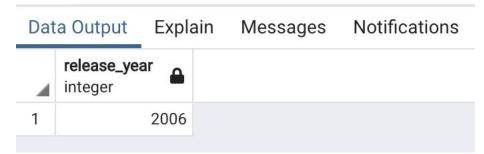
## Code:

SELECT \* from customer

Write a query to return unique rows from the release\_year column in the film table Code:

SELECT DISTINCT release\_year

FROM film



3. We're trying to find a customer located at a certain address '259 Ipoh Drive' – can you find their phone number?

#### Code:

SELECT phone FROM address WHERE address = '259 lpoh Drive'



4. Write a query from the payment table where the amount is either 4.99 or 1.99.

Code:

SELECT \* FROM payment

WHERE amount

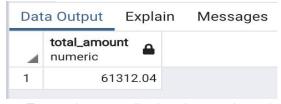
IN(4.99, 1.99)

Data O	utput Explain	Messages I	Notifications			
4	payment_id [PK] integer	customer_id smallint	staff_id smallint	rental_id integer	amount numeric (5,2)	payment_date timestamp without time zone
1	17504	341	1	1778	1.99	2007-02-16 17:23:14.996577
2	17512	343	2	1547	4.99	2007-02-16 00:10:50.996577
3	17520	344	2	1475	4.99	2007-02-15 19:36:27.996577
4	17523	345	1	1457	4.99	2007-02-15 18:34:15.996577
5	17525	345	2	2766	4.99	2007-02-19 16:13:41.996577
6	17531	347	1	3026	4.99	2007-02-20 10:16:26.996577
7	17549	352	1	1649	4.99	2007-02-16 07:48:59.996577
8	17550	352	1	1678	4.99	2007-02-16 09:36:54.996577
9	17551	352	1	1780	4.99	2007-02-16 17:40:11.996577
10	17552	352	2	3331	4.99	2007-02-21 08:06:19.996577
11	17557	354	1	2275	4.99	2007-02-18 04:59:55.996577

5. Display the total amount payed by all customers in the payment table.

Code:

SELECT SUM(amount) as total\_amount FROM payment



6. For each store, display the number of customers.

Code:

SELECT COUNT(customer\_id) FROM customer

GROUP BY store\_id

Dat	a Output	Explain	Messages
4	count bigint		
1	326		
2	273		

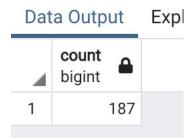
7. Show the number of movies each actor acted in Code:

SELECT actor\_id, COUNT(film\_id) FROM film\_actor GROUP BY actor\_id

Data (	Data Output		Explain Message		ges	Notifications
_	actor_id smallint	<u></u>	<b>count</b> bigint			
1		58		32		
2		8		20		
3		184		29		
4		116		24		
5		87		21		
6		71		18		
7		68		30		
8		51		25		
9		146		33		
10		80		28		
11		70		23		
12		52		26		
13		190		27		
14		162		25		
15		132		22		

8. Count the number of actors who's first\_names don't start with an 'A' Code:

SELECT COUNT(\*) FROM actor WHERE first\_name NOT LIKE 'A%'



- 9. Show the number of movies each actor acted in the same question as question 7
- 10. Return the total amount spent by each customer. Only return those customers who spent more than \$200

#### Code:

SELECT customer\_id, SUM(amount) as total\_amount FROM payment GROUP BY customer\_id HAVING SUM(amount) > 200

4	customer_id smallint	total_amount numeric	
1	526	208.58	
2	148	211.55	

11. Return the top 10 customers by payment amount

### Code:

SELECT customer\_id, SUM(amount) as total\_amount FROM payment GROUP BY customer\_id
ORDER BY total\_amount DESC
LIMIT 10

4	customer_id smallint	total_amount numeric
1	148	211.55
2	526	208.58
3	178	194.61
4	137	191.62
5	144	189.60
6	459	183.63
7	181	167.67
8	410	167.62
9	236	166.61
10	403	162.67

# 12. Return the name of the actor who was in the most movies Code:

SELECT first\_name, last\_name FROM actor

WHERE actor\_id IN (SELECT actor\_id FROM (SELECT actor\_id, COUNT(film\_id) as total\_movies FROM film\_actor

GROUP BY actor id

ORDER BY total\_movies DESC LIMIT 1) AS actor\_id\_table)

4	first_name character varying (45)	last_name character varying (45)	
1	Gina	Degeneres	

# 13. Edit the SQL Query from 12 to include the name of the movies they acted in Code:

SELECT actor.first\_name, actor.last\_name, film.title FROM film\_actor

LEFT JOIN actor ON film\_actor.actor\_id = actor.actor\_id

LEFT JOIN film on film\_actor.film\_id = film.film\_id

WHERE actor\_id IN (SELECT actor\_id FROM (SELECT actor\_id, COUNT(film\_id) as total\_movies FROM film\_actor

GROUP BY actor\_id

ORDER BY total\_movies DESC LIMIT 1) AS actor\_id\_table)

Data	Data Output Explain Messages Notifications						
4	first_name character varying (45)	last_name character varying (45)	title character varying (255)				
1	Gina	Degeneres	Bed Highball				
2	Gina	Degeneres	Calendar Gunfight				
3	Gina	Degeneres	Chamber Italian				
4	Gina	Degeneres	Chaplin License				
5	Gina	Degeneres	Chariots Conspiracy				
6	Gina	Degeneres	Clueless Bucket				
7	Gina	Degeneres	Coldblooded Darling				
8	Gina	Degeneres	Coneheads Smoochy				
9	Gina	Degeneres	Darkness War				
10	Gina	Degeneres	Deer Virginian				
11	Gina	Degeneres	Dogma Family				
12	Gina	Degeneres	Elephant Trojan				
13	Gina	Degeneres	Excitement Eve				
14	Gina	Degeneres	Frisco Forrest				

14. For the customer with the highest payment amount, return their name, payment amount, address, address 2, city name, and country

### Code:

SELECT customer.first\_name, customer.last\_name, address.address, address.address2, city.city, country.country, payment\_table.payment\_amount

 $FROM\ customer\ LEFT\ JOIN\ address\ ON\ customer. address\_id = address. address\_id$ 

LEFT JOIN city ON city.city\_id = address.city\_id

 $LEFT\ JOIN\ country\ ON\ country.country\_id = city.country\_id$ 

LEFT JOIN (SELECT customer\_id, SUM(amount) AS payment\_amount FROM payment

GROUP BY customer\_id) AS payment\_table ON customer.customer\_id = payment\_table.customer\_id

4	first_name character varying (45)	character varying (45)	address character varying (50)	address2 character varying (50)	city character varying (50)	country character varying (50)	payment_amount numeric
1	Jared	Ely	1003 Qinhuangdao Street		Purwakarta	Indonesia	81.83
2	Mary	Smith	1913 Hanoi Way		Sasebo	Japan	114.70
3	Patricia	Johnson	1121 Loja Avenue		San Bernardino	United States	123.74
4	Linda	Williams	692 Joliet Street		Athenai	Greece	130.76
5	Barbara	Jones	1566 Inegl Manor		Myingyan	Myanmar	81.78
6	Elizabeth	Brown	53 Idfu Parkway		Nantou	Taiwan	134.65
7	Jennifer	Davis	1795 Santiago de Compostela Way		Laredo	United States	84.75
8	Maria	Miller	900 Santiago de Compostela Parkway		Kragujevac	Yugoslavia	130.72
9	Susan	Wilson	478 Joliet Way		Hamilton	New Zealand	85.77
10	Margaret	Moore	613 Korolev Drive		Masqat	Oman	78.80
11	Dorothy	Taylor	1531 Sal Drive		Esfahan	Iran	94.76
12	Lisa	Anderson	1542 Tarlac Parkway		Sagamihara	Japan	99.77
13	Nancy	Thomas	808 Bhopal Manor		Yamuna Nagar	India	93.74
14	Karen	Jackson	270 Amroha Parkway		Osmaniye	Turkey	131.73
15	Betty	White	770 Bydgoszcz Avenue		Citrus Heights	United States	96.77
16	Helen	Harris	419 Iligan Lane		Bhopal	India	134.68
17	Sandra	Martin	360 Toulouse Parkway		Southend-on-Sea	United Kingdom	109.75