Dvdrental Database

Menganalisis data melalui beberapa pertanyaan mengenai data Dvdrental menggunakan postgreSQL.

1. Identify the top 10 customers and their email so we can reward them

   - **Query**

Query | Query History

```
1  SELECT customer_id, email
2  from customer
3  Limit 10
4
5
```

   - **Output**

Data Output | Messages | Notifications

	customer_id [PK] integer	email character varying (50)
1	524	jared.ely@sakilacustomer.org
2	1	mary.smith@sakilacustomer.org
3	2	patricia.johnson@sakilacustomer.org
4	3	linda.williams@sakilacustomer.org
5	4	barbara.jones@sakilacustomer.org
6	5	elizabeth.brown@sakilacustomer.org
7	6	jennifer.davis@sakilacustomer.org
8	7	maria.miller@sakilacustomer.org

Total rows: 10 of 10 | Query complete 00:00:00.374

2. Identify the bottom 10 customers and their emails

- Query

Query | Query History

```
1  SELECT customer_id, email
2  from customer
3  ORDER BY email DESC
4  Limit 10
```

- Output

Data Output | Messages | Notifications

	customer_id [PK] integer	email character varying (50)
1	479	zachary.hite@sakilacustomer.org
2	174	yvonne.watkins@sakilacustomer.org
3	190	yolanda.weaver@sakilacustomer.org
4	212	wilma.richards@sakilacustomer.org
5	359	willie.markham@sakilacustomer.org
6	219	willie.howell@sakilacustomer.org
7	303	william.satterfield@sakilacustomer.org
8	578	willard.lumpkin@sakilacustomer.org

Total rows: 10 of 10 | Query complete 00:00:00.370

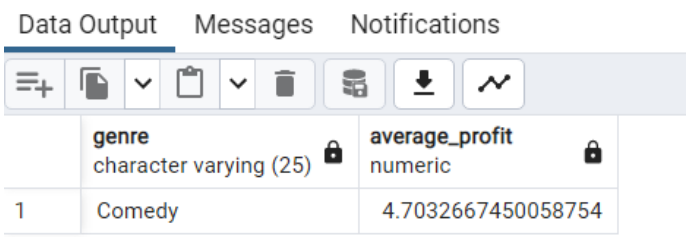
3. What are the most profitable movie genres (ratings)?

- Query

Query | Query History

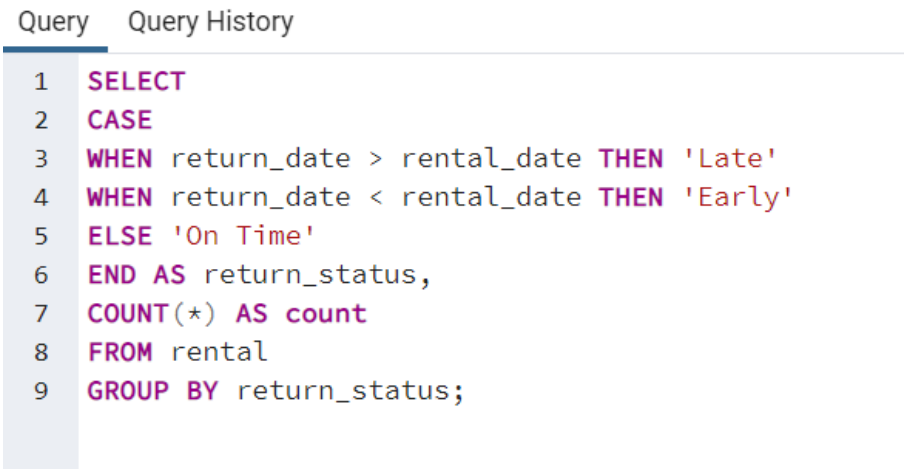
```
1  SELECT c.name AS genre, AVG(p.amount) AS average_profit
2  FROM film f
3  JOIN film_category fc ON f.film_id = fc.film_id
4  JOIN category c ON fc.category_id = c.category_id
5  JOIN inventory i ON f.film_id = i.film_id
6  JOIN rental r ON i.inventory_id = r.inventory_id
7  JOIN payment p ON r.rental_id = p.rental_id
8  GROUP BY c.name
9  ORDER BY average_profit DESC LIMIT 1;
10
```

- Output

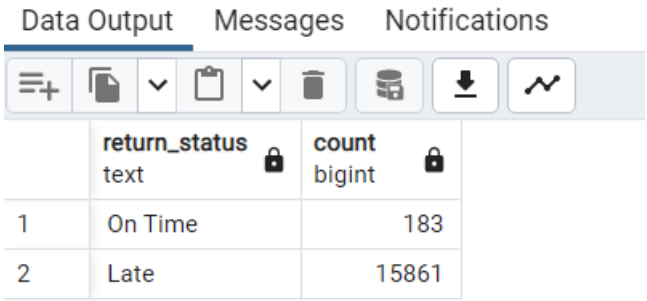


	genre character varying (25)	average_profit numeric
1	Comedy	4.7032667450058754

4. How many rented movies were returned late, early, and on time?
   - Query



   - Output



	return_status text	count bigint
1	On Time	183
2	Late	15861

5. What is the customer base in the countries where we have a presence?

- Query

Query | Query History

```
1  SELECT country, COUNT(*) AS customer_count FROM country
2  JOIN city ON country.country_id = city.country_id
3  JOIN address ON city.city_id = address.city_id
4  JOIN customer ON address.address_id = customer.address_id
5  GROUP BY country ORDER BY customer_count DESC;
```

- Output

Data Output | Messages | Notifications

	country character varying (50)	customer_count bigint
1	India	60
2	China	53
3	United States	36
4	Japan	31
5	Mexico	30
6	Brazil	28
7	Russian Federation	28
8	Philippines	20
9	Turkey	15

6. Which country is the most profitable for the business?

- Query

Query | Query History

```
1  SELECT country, SUM(amount) AS total_profit FROM country
2  JOIN city ON country.country_id = city.country_id
3  JOIN address ON city.city_id = address.city_id
4  JOIN customer ON address.address_id = customer.address_id
5  JOIN payment ON customer.customer_id = payment.customer_id
6  GROUP BY country ORDER BY total_profit DESC LIMIT 5;
```

- Output

Data Output | Messages | Notifications

	country character varying (50)	total_profit numeric
1	India	6034.78
2	China	5251.03
3	United States	3685.31
4	Japan	3122.51
5	Mexico	2984.82

7. What is the average rental rate per movie genre (rating)?

- Query

Query | Query History

```
1  SELECT c.name AS genre, AVG(f.rental_rate) AS average_rental_rate
2  FROM film f
3  JOIN film_category fc ON f.film_id = fc.film_id
4  JOIN category c ON fc.category_id = c.category_id
5  GROUP BY c.name
6  ORDER BY average_rental_rate DESC;
```

- Output

Data Output | Messages | Notifications

	genre character varying (25)	average_rental_rate numeric
1	Games	3.2522950819672131
2	Travel	3.2356140350877193
3	Sci-Fi	3.2195081967213115
4	Comedy	3.1624137931034483
5	Sports	3.1251351351351351
6	New	3.1169841269841270
7	Foreign	3.0995890410958904
8	Horror	3.0257142857142857
9	Drama	3.0222580645161290