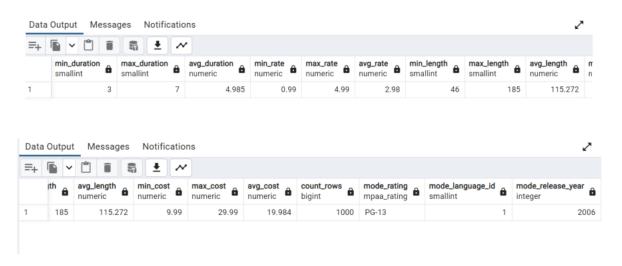
Queries for analysis of Rockbuster Stealth data

Descriptive statistics for film table

SELECT MIN(rental duration) AS min duration, MAX(rental_duration) AS max_duration, AVG(rental duration) AS avg duration, MIN(rental_rate) AS min_rate, MAX(rental rate) AS max rate, AVG(rental_rate) AS avg_rate, MIN(length) AS min length, MAX(length) AS max_length, AVG(length) AS avg length, MIN(replacement_cost) AS min_cost, MAX(replacement_cost) AS max_cost, AVG(replacement_cost) AS avg_cost, COUNT (*) AS count rows, mode() WITHIN GROUP (ORDER BY rating) AS mode_rating, mode() WITHIN GROUP (ORDER BY language id) AS mode language id, mode() WITHIN GROUP (ORDER BY release_year) AS mode_release_year FROM film



Top 10 countries with the highest number of customers

SELECT D.country,
COUNT (customer_id) AS customer_id_count
FROM customer A
INNER JOIN address B on A.address_id = B. address_id
INNER JOIN city C on B.city_id = C.city_id
INNER JOIN country D on C. country_id = D. country_id
GROUP BY Country
ORDER BY customer_id_count DESC
LIMIT 10

	country character varying (50)	customer_id_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
10	Indonesia	14

Total rows: 10 of 10 Query complete 00:00:01.841

Top 10 cities among the top countries where there are the most customers for Rockbuster

GROUP BY country, city
ORDER BY customer_id_count DESC
LIMIT 10

1	character varying (50)	character varying (50)	
	omica otateo	Aurora	2
2	Mexico	Acua	1
3	United States	Citrus Heights	1
4	Japan	lwaki	1
5	India	Ambattur	1
5	China	Shanwei	1
7	Brazil	So Leopoldo	1
	China	Tianjin	1
)	China	Hami	1
0	Indonesia	Cianjur	1

City of top five customers who have paid the highest total amounts to Rockbuster

FROM payment A

INNER JOIN customer B on A.customer_id = B.customer_id

INNER JOIN address C on B.address_id = C.address_id

INNER JOIN city D on C.city_id = D.city_id

INNER JOIN country E on D.country_id = E.country_id

WHERE D.city IN ('Aurora', 'Acua', 'Citrus Heights', 'Iwaki', 'Ambattur', 'Shanwei',

'So Leopoldo', 'Teboksary', 'Tianjin', 'Cianjur')

GROUP BY B.first_name, B.last_name, A.customer_id, D.city, E.country

ORDER BY total_amount DESC

LIMIT 5

	customer_id smallint	first_name character varying (45)	last_name character varying (45)	city character varying (50)	country character varying (50)	total_amount numeric
1	225	Arlene	Harvey	Ambattur	India	111.76
2	424	Kyle	Spurlock	Shanwei	China	109.71
3	240	Marlene	Welch	lwaki	Japan	106.77
4	486	Glen	Talbert	Acua	Mexico	100.77
5	537	Clinton	Buford	Aurora	United States	98.76

Most revenue gained from movies according to rating

SELECT D.rating, SUM(A.amount)
FROM payment A
INNER JOIN rental B ON A.rental_id = B.rental_id
INNER JOIN inventory C ON B.inventory_id = C.inventory_id
INNER JOIN film D ON C.film_id = D.film_id
GROUP BY D.rating

	rating mpaa_rating	sum numeric
1	PG	12236.65
2	R	12073.03
3	NC-17	12634.92
4	PG-13	13855.56
5	G	10511.88

Most total amount generated according to category of movies

SELECT E.name,
SUM(A.amount) AS total_amount
FROM payment A
INNER JOIN rental B ON A.rental_id = B.rental_id
INNER JOIN inventory C ON B.inventory_id = C.inventory_id
INNER JOIN film_category D ON C.film_id = D.film_id
INNER JOIN category E ON D.category_id = E.category_id
GROUP BY E.name
ORDER BY total_amount
DESC

	name character varying (25)	total_amount numeric
1	Sports	4892.19
2	Sci-Fi	4336.01
3	Animation	4245.31
4	Drama	4118.46
5	Comedy	4002.48
6	New	3966.38
7	Action	3951.84
8	Foreign	3934.47
9	Games	3922.18
10	Family	3782.26
11	Documentary	3749.65
12	Horror	3401.27
13	Classics	3353.38
14	Children	3309.39
15	Travel	3227.36
16	Music	3071.52
17	Thriller	47.89