FILM TABLE SUMMARY

	average_rental_duration	maximum_rental_duration	minimum_rental_duration
Numerical	4.985	7	3

Non-numerical	mode_rating	mode_language_id	mode_release_year
	PG-13	1	2006

SELECT MAX (rental_duration) AS maximum_rental_duration,
MIN (rental_duration) AS minimum_rental_duration,
AVG (rental_duration) AS average_rental_duration,
MAX (rental_rate) AS maximum_rental_rate,
MIN (rental_rate) AS minimum_rental_rate,
AVG (rental_rate) AS average_rental_rate,
MAX (length) AS maximum_length,
MIN (length) AS minimum_length,
AVG (length) AS average_length,
MAX (replacement_cost) AS maximum_replacement_cost,
MIN (replacement_cost) AS minimum_replacement_cost,
AVG (replacement_cost) AS average_replacement_cost,
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,
MODE () WITHIN GROUP (ORDER BY last_update) AS mode_last_update
FROM film

average_rental_rate	maximum_rental_rate	minimum_rental_rate	average_length
2.98	4.99	0.99	115.272

mode_last_update
50:59.0

```
 1   SELECT MAX (rental_duration) AS maximum_rental_durati
 2   MIN (rental_duration) AS minimum_rental_duration,
 3   AVG (rental_duration) AS average_rental_duration,
 4   MAX (rental_rate) AS maximum_rental_rate,
 5   MIN (rental_rate) AS minimum_rental_rate,
 6   AVG (rental_rate) AS average_rental_rate,
 7   MAX (length) AS maximum_length,
 8   MIN (length) AS minimum_length,
 9   AVG (length) AS average_length,
10   MAX (replacement_cost) AS maximum_replacement_cost,
11   MIN (replacement_cost) AS minimum_replacement_cost,
12   AVG (replacement_cost) AS average_replacement_cost,
13   MODE () WITHIN GROUP (ORDER BY rating) AS mode_ratin
14   MODE () WITHIN GROUP (ORDER BY language_id) AS mode_
15   MODE () WITHIN GROUP (ORDER BY release_year) AS mode
16   MODE () WITHIN GROUP (ORDER BY last_update) AS mode_
17   FROM film
18
```

Data Output   Messages   Notifications

	maximum_rental_duration smallint	minimum_rental_duration smallint	ave num
1	7	3	

maximum_length	minimum_length	average_replacement_cost	maximum_replacement_cost
185	46	19.984	29.99

ion,

g,
language_id,
_release_year,
last_update

↗		
rage_rental_duration 🔒 neric	maximum_rental_rate 🔒 numeric	minimum_re numeric
4.985	4.99	

minimum_replacement_cost	mode_rating	mode_language_id	mode_release_year
9.99	PG-13	1	2006

mode_last_update
50:59.0

CUSTOMER TABLE SUMMARY

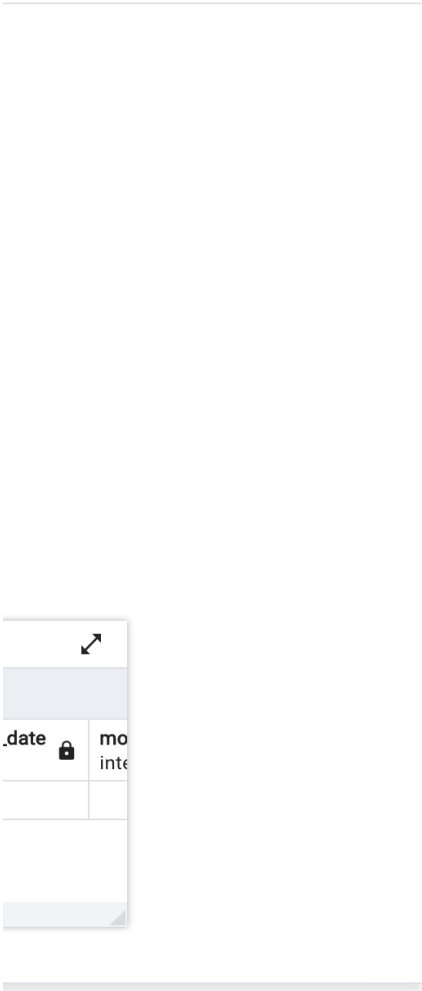| mode_first_name	mode_last_name	mode_store_id	mode_last_update	mode_create_date
Jamie	Abney	1	49:45.7	2/14/2006

```
SELECT
MODE () WITHIN GROUP (ORDER BY first_name) AS mode_first_name,
MODE () WITHIN GROUP (ORDER BY last_name) AS mode_last_name,
MODE () WITHIN GROUP (ORDER BY store_id) AS mode_address_id,
MODE () WITHIN GROUP (ORDER BY last_update) AS mode_last_update,
MODE () WITHIN GROUP (ORDER BY create_date) AS mode_create_date,
MODE () WITHIN GROUP (ORDER BY active) AS mode_active
FROM customer
```

mode_active

    1

```sql
1  SELECT
2  MODE () WITHIN GROUP (ORDER BY first_name) AS mode_first_name,
3  MODE () WITHIN GROUP (ORDER BY last_name) AS mode_last_name,
4  MODE () WITHIN GROUP (ORDER BY store_id) AS mode_address_id,
5  MODE () WITHIN GROUP (ORDER BY last_update) AS mode_last_update,
6  MODE () WITHIN GROUP (ORDER BY create_date) AS mode_create_date,
7  MODE () WITHIN GROUP (ORDER BY active) AS mode_active
8  FROM customer
9
```

Data Output   Messages   Notifications

	mode_first_name character varying 🔒	mode_last_name character varying 🔒	mode_address_id smallint 🔒	mode_last_update timestamp without time zone 🔒	mode_create_ date
1	Jamie	Abney	1	2013-05-26 14:49:45.738	2006-02-14

.date	mo
🔒	inte

```
SELECT title AS movie_title, name AS genre, SUM(amount) AS total_revenue
FROM film A
INNER JOIN film_category B ON A.film_id = B.film_id
INNER JOIN category C ON B.category_id = C.category_id
INNER JOIN inventory D ON A.film_id = D.film_id
INNER JOIN rental E ON D.inventory_id = E.inventory_id
INNER JOIN payment F ON E.rental_id = F.rental_id
GROUP BY name, title
ORDER BY SUM(amount) DESC
LIMIT 10
```
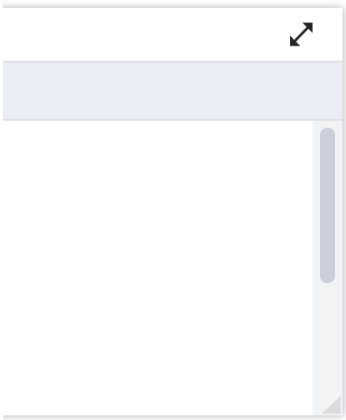
Title	Genre	Total revenue
Telegraph Voyage	Music	215.75
Zorro Ark	Comedy	199.72
Wife Turn	Documentary	198.73
Innocent Usual	Foreign	191.74
Hustler Party	Comedy	190.78
Saturday Lambs	Sports	190.74
Titans Jerk	Sci-Fi	186.73
Harry Idaho	Drama	177.73
Torque Bound	Drama	169.76
Dogma Family	Animation	168.72

```
 1   SELECT title AS movie_title, name AS genre, SUM(amount) AS total_revenue
 2   FROM film A
 3   INNER JOIN film_category B ON A.film_id = B.film_id
 4   INNER JOIN category C ON B.category_id = C.category_id
 5   INNER JOIN inventory D ON A.film_id = D.film_id
 6   INNER JOIN rental E ON D.inventory_id = E.inventory_id
 7   INNER JOIN payment F ON E.rental_id = F.rental_id
 8   GROUP BY name, title
 9   ORDER BY SUM(amount) DESC
10   LIMIT 10
```

Data Output   Messages   Notifications

	movie_title character varying (255) 🔒	genre character varying (25) 🔒	total_revenue numeric 🔒
1	Telegraph Voyage	Music	215.75
2	Zorro Ark	Comedy	199.72
3	Wife Turn	Documentary	198.73
4	Innocent Usual	Foreign	191.74
5	Hustler Party	Comedy	190.78

```
SELECT title AS movie_title, name AS genre, SUM(amount) AS total_revenue
FROM film A
INNER JOIN film_category B ON A.film_id = B.film_id
INNER JOIN category C ON B.category_id = C.category_id
INNER JOIN inventory D ON A.film_id = D.film_id
INNER JOIN rental E ON D.inventory_id = E.inventory_id
INNER JOIN payment F ON E.rental_id = F.rental_id
GROUP BY name, title
ORDER BY SUM(amount)
LIMIT 10
```

movie_title	genre	total_revenue
Oklahoma Juma	New	5.94
Duffel Apocalyp	Documentary	5.94
Texas Watch	Horror	5.94
Freedom Cleopa	Comedy	5.95
Rebel Airport	Music	6.93
Young Language	Documentary	6.93
Cruelty Unforgiv	Classics	6.94
Treatment Jekyl	Drama	6.94
Lights Deer	Classics	7.93
Stallion Sundan	Sci-Fi	7.94

```sql
SELECT title AS movie_title, name AS genre, SUM(amount) AS t
FROM film A
INNER JOIN film_category B ON A.film_id = B.film_id
INNER JOIN category C ON B.category_id = C.category_id
INNER JOIN inventory D ON A.film_id = D.film_id
INNER JOIN rental E ON D.inventory_id = E.inventory_id
INNER JOIN payment F ON E.rental_id = F.rental_id
GROUP BY name, title
ORDER BY SUM(amount)
LIMIT 10
```

Data Output   Messages   Notifications

	movie_title character varying (255)	genre character varying (25)	total_revenue numeric
1	Oklahoma Jumanji	New	5.94
2	Duffel Apocalypse	Documentary	5.94
3	Texas Watch	Horror	5.94
4	Freedom Cleopatra	Comedy	5.95
5	Rebel Airport	Music	6.93
6	Young Language	Documentary	6.93
7	Cruelty Unforgiven	Classics	6.94
8	Treatment Jekyll	Drama	6.94
9	Lights Deer	Classics	7.93
10	Stallion Sundance	Sci-Fi	7.94

total_revenue

```
SELECT name AS genre, SUM(amount) AS total_revenue
FROM film A
INNER JOIN film_category B ON A.film_id = B.film_id
INNER JOIN category C ON B.category_id = C.category_id
INNER JOIN inventory D ON A.film_id = D.film_id
INNER JOIN rental E ON D.inventory_id = E.inventory_id
INNER JOIN payment F ON E.rental_id = F.rental_id
GROUP BY name
ORDER BY SUM(amount) DESC
LIMIT 10
```

genre	total_revenue
Sports	4892.19
Sci-Fi	4336.01
Animation	4245.31
Drama	4118.46
Comedy	4002.48
New	3966.38
Action	3951.84
Foreign	3934.47
Games	3922.18
Family	3782.26

```sql
CT name AS genre, SUM(amount) AS total_revenue
 film A
R JOIN film_category B ON A.film_id = B.film_id
R JOIN category C ON B.category_id = C.category_id
R JOIN inventory D ON A.film_id = D.film_id
R JOIN rental E ON D.inventory_id = E.inventory_id
R JOIN payment F ON E.rental_id = F.rental_id
P BY name
R BY SUM(amount) DESC
T 10
```

Data Output   Messages   Notifications

	genre character varying (25)	total_revenue numeric
1	Sports	4892.19
2	Sci-Fi	4336.01
3	Animation	4245.31
4	Drama	4118.46
5	Comedy	4002.48

```
SELECT rating, SUM(amount) AS total_revenue
FROM film A
INNER JOIN film_category B ON A.film_id = B.film_id
INNER JOIN category C ON B.category_id = C.category_id
INNER JOIN inventory D ON A.film_id = D.film_id
INNER JOIN rental E ON D.inventory_id = E.inventory_id
INNER JOIN payment F ON E.rental_id = F.rental_id
GROUP BY rating
ORDER BY SUM(amount) DESC
LIMIT 10
```

rating	total_revenue
PG-13	13855.56
NC-17	12634.92
PG	12236.65
R	12073.03
G	10511.88

```
1   SELECT r
2   FROM fil
3   INNER JO
4   INNER JO
5   INNER JO
6   INNER JO
7   INNER JO
8   GROUP BY
9   ORDER BY
10  LIMIT 10
```

Data

≡+

1
2
3
4
5

Total rows: 5 of

```sql
rating, SUM(amount) AS total_revenue
m A
)IN film_category B ON A.film_id = B.film_id
)IN category C ON B.category_id = C.category_id
)IN inventory D ON A.film_id = D.film_id
)IN rental E ON D.inventory_id = E.inventory_id
)IN payment F ON E.rental_id = F.rental_id
' rating
' SUM(amount) DESC
)
```

rating mpaa_rating 🔒	total_revenue 🔒 numeric
PG-13	13855.56
NC-17	12634.92
PG	12236.65
R	12073.03
G	10511.88

5   Query complete 00:00:00.270

```
SELECT name AS genre, AVG(rental_duration) AS average_rental_duration
FROM film A
INNER JOIN film_category B ON A.film_id = B.film_id
INNER JOIN category C ON B.category_id = C.category_id
INNER JOIN inventory D ON A.film_id = D.film_id
INNER JOIN rental E ON D.inventory_id = E.inventory_id
INNER JOIN payment F ON E.rental_id = F.rental_id
GROUP BY name
ORDER BY AVG(rental_duration) DESC
LIMIT 10
```
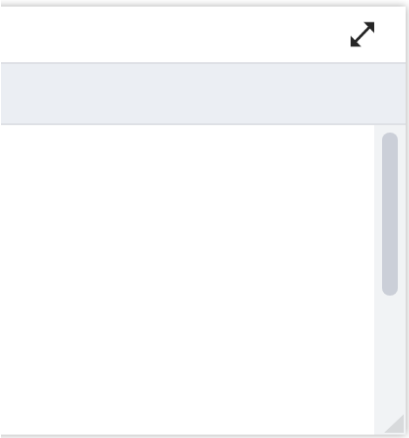
genre	average_rental_duration
Thriller	6
Travel	5.478431373
Music	5.230666667
Family	5.148413511
Foreign	5.125918153
Drama	5.068205666
Games	5.003393665
Children	5.00232288
Action	4.932872655
Classics	4.925581395

```sql
1   SELECT name AS genre, AVG(rental_duration) AS average_rental_duration
2   FROM film A
3   INNER JOIN film_category B ON A.film_id = B.film_id
4   INNER JOIN category C ON B.category_id = C.category_id
5   INNER JOIN inventory D ON A.film_id = D.film_id
6   INNER JOIN rental E ON D.inventory_id = E.inventory_id
7   INNER JOIN payment F ON E.rental_id = F.rental_id
8   GROUP BY name
9   ORDER BY AVG(rental_duration) DESC
10  LIMIT 10
```

Data Output   Messages   Notifications

	genre character varying (25) 🔒	average_rental_duration 🔒 numeric
1	Thriller	6
2	Travel	5.47843137254902
3	Music	5.230666666666667
4	Family	5.148413510747186
5	Foreign	5.12591815320042

```
SELECT D.country, COUNT(customer_id) AS count_of_customers
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 COUNT(customer_id) DESC
LIMIT 10
```

country	count_of_customers
India	60
China	53
United States	36
Japan	31
Mexico	30
Brazil	28
Russian Federation	28
Philippines	20
Turkey	15
Indonesia	14

```
.country, COUNT(customer_id) AS count_of_customers
tomer A
IN address B ON A.address_id = B.address_id
IN city C ON B.city_id = C.city_id
IN country D ON C.country_id = D.country_id
 country
 COUNT(customer_id) DESC
```

Output   Messages   Notifications

country character varying (50)	count_of_customers bigint
India	60
China	53
United States	36
Japan	31
Mexico	30

```
SELECT D.country, city, COUNT(customer_id) AS count_of_customers
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, city
ORDER BY COUNT(customer_id) DESC
LIMIT 10
```

country	city	count_of_customers
United Kingdom	London	2
United States	Aurora	2
Spain	Santiago de C	1
Japan	Iwaki	1
China	Shanwei	1
Morocco	Nador	1
China	Tianjin	1
Angola	Benguela	1
South Africa	Rustenburg	1
South Africa	Newcastle	1

```
1  SELECT D
2  FROM cus
3  INNER JO
4  INNER JO
5  INNER JO
6  GROUP BY
7  ORDER BY
8  LIMIT 10
```

Data

1
2
3
4
5

```
).country, city, COUNT(customer_id) AS count_of_customers
tomer A
JOIN address B ON A.address_id = B.address_id
JOIN city C ON B.city_id = C.city_id
JOIN country D ON C.country_id = D.country_id
 country, city
 COUNT(customer_id) DESC
)
```


country character varying (50)	city character varying (50)	count_of_customers bigint
United Kingdom	London	2
United States	Aurora	2
Spain	Santiago de Compostela	1
Japan	Iwaki	1
China	Shanwei	1

```
SELECT A.customer_id, A.first_name, A.last_name, C.city, D.country, SUM(E.amount) A
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
INNER JOIN payment E ON A.customer_id = E.customer_id
WHERE city IN ('London', 'Aurora', 'Santiago de Compostela', 'Iwaki', 'Shanwei', 'Nador
GROUP BY A.customer_id, A.first_name, A.last_name, C.city, D.country
ORDER BY total_amount_spent DESC
LIMIT 10
```

customer_id	first_name	last_name	city	country
512	Cecil	Vines	London	ited Kingdom
424	Kyle	Spurlock	Shanwei	China
240	Marlene	Welch	Iwaki	Japan
40	Amanda	Carter	Nador	Morocco
407	Dale	Ratcliff	Rustenburg	South Africa
537	Clinton	Buford	Aurora	United States
528	Claude	Herzog	Benguela	Angola
432	Edwin	Burk	Newcastle	South Africa
249	Dora	Medina	Tianjin	China
549	Nelson	Christenson	Santiago de Compostela	Spain

AS total_amount_spent

', 'Tianjin', 'Benguela', 'Rustenburg', 'Newcastle')

total_amount_spent
115.74
109.71
106.77
105.74
104.74
98.76
93.8
93.8
88.81
62.84

```
1   SELECT A.custc
2   FROM customer
3   INNER JOIN add
4   INNER JOIN cit
5   INNER JOIN cou
6   INNER JOIN pay
7   WHERE city IN
8   GROUP BY A.cus
9   ORDER BY total
10  LIMIT 10
11
```

Data Output

custor
intege

1
2
3
4
5

```sql
omer_id, A.first_name, A.last_name, C.city, D.country, SUM(E.amount) AS total_amount_spent
A
dress B ON A.address_id = B.address_id
ty C ON B.city_id = C.city_id
untry D ON C.country_id = D.country_id
yment E ON A.customer_id = E.customer_id
('London', 'Aurora', 'Santiago de Compostela', 'Iwaki', 'Shanwei', 'Nador', 'Tianjin', 'Benguela', 'Ru
stomer_id, A.first_name, A.last_name, C.city, D.country
l_amount_spent DESC
```

Messages   Notifications

mer_id 🔒 er	first_name 🔒 character varying (45)	last_name 🔒 character varying (45)	city 🔒 character varying (50)	country 🔒 character varying (50)
512	Cecil	Vines	London	United Kingdom
424	Kyle	Spurlock	Shanwei	China
240	Marlene	Welch	Iwaki	Japan
40	Amanda	Carter	Nador	Morocco
407	Dale	Ratcliff	Rustenburg	South Africa

`ustenburg', 'Newc`