

## Find the average amount paid by the top 5 customers

Query Query History

```
1 WITH average_total_amount_paid_cte(customer_ID, first_name, last_name, city, country, total_amount_paid)
2 AS (SELECT a.customer_ID, a.first_name, a.last_name, c.city, d.country, SUM(e.amount) AS total_amount_paid
3 FROM customer a
4 INNER JOIN address B ON a.address_id = b.address_id
5 INNER JOIN city c ON b.city_id = c.city_id
6 INNER JOIN country d ON c.country_id = d.country_id
7 INNER JOIN payment e ON a.customer_id = e.customer_id
8 WHERE c.city IN ('Aurora', 'Atlixco', 'Xintai', 'Adoni', 'Dhule (Dhulia)', 'Kurashiki',
9 'Pingxiang', 'Sivas', 'Celaya', 'So Leopoldo')
10 GROUP BY a.customer_ID, c.city, d.country
11 ORDER BY SUM(e.amount) DESC
12 LIMIT 5)
13
14
15 SELECT AVG(total_amount_paid) AS average_total_amount_paid
16 FROM average_total_amount_paid_cte
```

Data output Messages Notifications

	average_total_amount_paid numeric
1	107.354000000000000000

## Find out how many of the top 5 customers are based within each country

Query Query History

```
1 WITH top_customer_count_cte(amount, customer_ID, first_name, last_name, city, country, total_amount_paid)
2 AS (SELECT e.amount, a.customer_ID, a.first_name, a.last_name, c.city,
3 d.country, SUM(amount) AS total_amount_paid
4 FROM customer a
5 LEFT JOIN address B ON a.address_id = b.address_id
6 LEFT JOIN city c ON b.city_id = c.city_id
7 LEFT JOIN country d ON c.country_id = d.country_id
8 LEFT JOIN payment e ON a.customer_id = e.customer_id
9 WHERE city IN ('Aurora', 'Atlixco', 'Xintai', 'Adoni', 'Dhule (Dhulia)', 'Kurashiki',
10 'Pingxiang', 'Sivas', 'Celaya', 'So Leopoldo')
11 GROUP BY e.amount, a.customer_ID, a.first_name, a.last_name, c.city, d.country
12 ORDER BY SUM(amount) DESC LIMIT 5),
13
14 customer_count_cte AS (SELECT d.country, COUNT(DISTINCT a.customer_id) AS all_customer_count,
15 COUNT(DISTINCT d.country) AS top_customer_count
16 FROM customer A
17 INNER JOIN address B ON a.address_id = b.address_id
18 INNER JOIN city C ON b.city_id = c.city_id
19 INNER JOIN country D ON c.country_id = d.country_id
20 INNER JOIN payment E ON a.customer_id = e.customer_id
21 GROUP BY d.country)
22
23 SELECT d.country, COUNT(DISTINCT a.customer_ID) as all_customer_count,
24 COUNT(DISTINCT top_customer_count_cte.customer_ID) AS top_customer_count
25 FROM customer A
26 INNER JOIN address B ON a.address_id = b.address_id
27 INNER JOIN city C ON b.city_id = c.city_id
28 INNER JOIN country D ON c.country_id = d.country_id
29 INNER JOIN payment E ON a.customer_id = e.customer_id
30 LEFT JOIN top_customer_count_cte ON d.country= top_customer_count_cte.country
31 GROUP BY d.country
32 ORDER BY all_customer_count DESC LIMIT 5
```

	country character varying (50)	all_customer_count bigint	top_customer_count bigint
1	India	60	1
2	China	53	0
3	United States	36	1
4	Japan	31	0
5	Mexico	30	2