# **Common Table Expressions (CTE)**

### Rewriting the subqueries into CTE's:

Subquery 1, into CTE:

```
WITH top_5_customers AS (
  SELECT
   customer.customer_id,
   customer.first_name,
   customer.last name,
   city.city,
   country.country,
   SUM(payment.amount) AS total_amount_paid
  FROM country
  INNER JOIN city ON country.country_id = city.country_id
  INNER JOIN address ON city.city_id = address.city_id
  INNER JOIN customer ON address.address_id = customer.address_id
  INNER JOIN payment ON customer.customer id = payment.customer id
 WHERE city.city IN (
   'Aurora', 'Atlixco', 'Xintai', 'Adoni', 'Dhule (Dhulia)', 'Kurashiki',
   'Pingxiang', 'Sivas', 'Celaya', 'So Leopoldo'
 AND country.country IN (
   'India', 'China', 'United States', 'Japan', 'Mexico', 'Brazil',
   'Russian Federation', 'Philippines', 'Turkey', 'Indonesia'
 GROUP BY customer.customer id, customer.first name,
      customer.last_name, city.city, country.country
 ORDER BY total_amount_paid DESC
 LIMIT 5
)
SELECT AVG(total_amount_paid) AS average
FROM top_5_customers;
```

### Subquery 2, into CTE:

```
WITH top_5_customers AS (
SELECT
customer.customer_id,
country.country
FROM country
INNER JOIN city ON country.country_id = city.country_id
INNER JOIN address ON city.city_id = address.city_id
INNER JOIN customer ON customer.address_id = address.address_id
INNER JOIN payment ON customer.customer_id = payment.customer_id
```

```
WHERE city.city IN (
   'Aurora', 'Atlixco', 'Xintai', 'Adoni', 'Dhule (Dhulia)', 'Kurashiki',
   'Pingxiang', 'Sivas', 'Celaya', 'So Leopoldo'
 )
 AND country.country IN (
   'India', 'China', 'United States', 'Japan', 'Mexico', 'Brazil',
   'Russian Federation', 'Philippines', 'Turkey', 'Indonesia'
 GROUP BY customer.customer_id, country.country
 ORDER BY SUM(payment.amount) DESC
 LIMIT 5
)
SELECT
 country.country,
 COUNT(DISTINCT customer.customer_id) AS all_customer_count,
 COUNT(DISTINCT top_5_customers.customer_id) AS top_customer_count
FROM country
INNER JOIN city ON country.country_id = city.country_id
INNER JOIN address ON city.city_id = address.city_id
INNER JOIN customer ON customer.address_id = address.address_id
LEFT JOIN top_5_customers ON top_5_customers.customer_id =
customer.customer id
GROUP BY country.country
ORDER BY all_customer_count DESC;
```

#### **Output step one:**

"average"

107.3540000000000000

## **Output step two:**

"country"	"all_customer_count"	"top_customer_count"
"India"	60	1
"China"	53	0
"United States"	36	1
"Japan"	31	0
"Mexico"	30	2
"Brazil"	28	0
"Russian Federation"	28	0
"Philippines"	20	0
"Turkey"	15	1
"Indonesia"	14	0
"Nigeria"	13	0
"Argentina"	13	0

"Taiwan" 10 0 0 "United Kingdom" 9 0 0 "Iran" 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	"South Africa"	11	0
"United Kingdom"         9         0           "Iran"         8         0           "Poland"         8         0           "Italy"         7         0           "Germany"         7         0           "Venezuela"         7         0           "Useraine"         6         0           "Ukraine"         6         0           "Ukraine"         6         0           "Vietnam"         6         0           "Colombia"         6         0           "Colombia"         5         0           "Canada"         5         0           "Spain"         5         0           "Canada"         5         0           "Saudi Arabia"         5         0           "Saudi Arabia"         5         0           "Patisath         5         0           "Saudi Arabia"         5         0           "Patisath Korea"         5         0           "Peru"         4         0           "France"         4         0           "Israel"         4         0           "Israel"         4         0			
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"Bulgaria"       2       0         "Yugoslavia"       2       0         "Cambodia"       2       0         "Cameroon"       2       0	"Greece"	2	0
"Yugoslavia"       2       0         "Cambodia"       2       0         "Cameroon"       2       0	"Belarus"	2	0
"Yugoslavia"       2       0         "Cambodia"       2       0         "Cameroon"       2       0	"Bulgaria"	2	0
"Cambodia"       2       0         "Cameroon"       2       0		2	0
"Cameroon" 2 0		2	0
j nomania – j z – j U	"Romania"	2	0
"Puerto Rico" 2 0			

"Kazakstan"	2	0
"Kenya"	2	0
"Angola"	2	0
"Latvia"	2	0
"Azerbaijan"	2	0
"Congo, The Democratic	2	0
Republic of the"	_	
"Oman"	2	0
"Myanmar"	2	0
"French Polynesia"	2	0
"Zambia"	1	0
"American Samoa"	1	0
"Anguilla"	1	0
"Armenia"	1	0
"Bahrain"		0
"Brunei"	1	
	1	0
"Chad"	1	0
"Czech Republic"	1	0
"Estonia"	1	0
"Ethiopia"	1	0
"Faroe Islands"	1	0
"Finland"	1	0
"French Guiana"	1	0
"Gambia"	1	0
"Greenland"	1	0
"Holy See (Vatican City State)"	1	0
"Hong Kong"	1	0
"Hungary"	1	0
"Iraq"	1	0
"Kuwait"	1	0
"Liechtenstein"	1	0
"Lithuania"	1	0
"Madagascar"	1	0
"Malawi"	1	0
"Moldova"	1	0
"Nauru"	1	0
"Nepal"	1	0
"New Zealand"	1	0
	1	0
"North Korea" "Runion"		
	1	0
"Saint Vincent and the		0
Grenadines"	1	0
"Senegal"	1	0
"Slovakia"	1	0
"Sri Lanka"	1	0

"Sweden"	1	0
"Tonga"	1	0
"Tunisia"	1	0
"Turkmenistan"	1	0
"Tuvalu"	1	0
"Virgin Islands, U.S."	1	0
"Afghanistan"	1	0

# Compare the performance of your CTEs and subqueries.

I prefer using CTEs because the readability, the structured thinking, resonates much more with my own thought process than writing queries with subqueries.

Also, CTEs seem easier when the query is complex — they make code clearer, reusable, and easier to debug than deeply nested subqueries.