Q1. How rows are in tableOne?

count\_accounts: 351  
count\_orders: 6912  
count\_region: 4  
count\_sales\_reps: 50  
count\_web\_events: 9073

Code:

SELECT

(SELECT COUNT(\*) from accounts) AS Count\_accounts,

(SELECT COUNT(\*) FROM orders) AS Count\_orders,

(SELECT COUNT(\*) FROM region) AS Count\_region,

(SELECT COUNT(\*) FROM sales\_reps) AS Count\_sales\_reps,

(SELECT COUNT(\*) FROM web\_events) AS Count\_web\_events

Q2. What is the date range of orders?

| **date\_min** | **date\_max** |
| --- | --- |
| 2013-12-04T04:22:44.000Z | 2017-01-02T00:02:40.000Z |

Code:

SELECT

MIN(occurred\_at) AS Date\_min,

MAX(occurred\_at) AS Date\_max

FROM

orders

Q3: How many of each type of paper has been sold?  
sum\_gloss\_qty: 1013773,  
sum\_poster\_qty: 723646,  
sum\_std\_qty: 1938346  
Query:  
SELECT

SUM(gloss\_qty) AS sum\_gloss\_qty,

SUM(poster\_qty) AS sum\_poster\_qty,

SUM(standard\_qty) AS sum\_std\_qty

FROM

orders

Q4: How much, in dollars, have each of the paper types sold?

| **sum\_gloss\_usd** | **sum\_poster\_usd** | **sum\_std\_usd** |
| --- | --- | --- |
| 7593159.77 | 5876005.52 | 9672346.54 |

SELECT

SUM(gloss\_amt\_usd) AS sum\_gloss\_usd,

SUM(poster\_amt\_usd) AS sum\_poster\_usd,

SUM(standard\_amt\_usd) AS sum\_std\_usd

FROM

orders  
  
  
Q5: What is the most profitable paper type?

| **great\_value** | **name\_greater** |
| --- | --- |
| 9672346.54 | standard |

Query:  
  
SELECT

GREATEST(

SUM(standard\_amt\_usd),

SUM(gloss\_amt\_usd),

SUM(poster\_amt\_usd)

) AS great\_value,

CASE

WHEN GREATEST(SUM(gloss\_amt\_usd), SUM(poster\_amt\_usd), SUM(standard\_amt\_usd)) = SUM(gloss\_amt\_usd) THEN 'gloss'

WHEN GREATEST(SUM(gloss\_amt\_usd), SUM(poster\_amt\_usd), SUM(standard\_amt\_usd)) = SUM(poster\_amt\_usd) THEN 'poster'

ELSE 'standard'

END AS name\_greater

FROM orders;

Q6: What are the top five accounts by average total amount?

| **account\_id** | **mean\_account** |
| --- | --- |
| 4251 | 19639.936923076923 |
| 4101 | 13753.411250000000 |
| 2441 | 12872.165714285714 |
| 1341 | 12423.394444444444 |
| 1111 | 9685.4525000000000000 |

SELECT

account\_id,

AVG(total\_amt\_usd) AS mean\_account

FROM orders

GROUP BY account\_id

ORDER BY mean\_account DESC

LIMIT 5

Q7: What channel do most of the online sales come from?

| **channel** | **count\_channel** |
| --- | --- |
| direct | 5298 |

Query:  
  
SELECT channel, COUNT(channel) AS count\_channel

FROM web\_events

GROUP BY channel

ORDER BY count\_channel DESC

LIMIT 1  
  
Q8: Which region\_id has the largest number of sales persons?  
  
Region\_id: 1  
  
SELECT region\_id, COUNT(region\_id) AS count\_region

FROM sales\_reps

GROUP BY region\_id

ORDER BY count\_region DESC

LIMIT 1  
Q9: Which web events channel had the highest total quantity sold of all three types of paper?

| **channel** | **total\_sold** |
| --- | --- |
| direct | 102408010 |

SELECT

web\_events.channel,

SUM(orders.total) AS total\_sold

FROM web\_events

JOIN orders ON web\_events.account\_id = orders.account\_id

GROUP BY web\_events.channel

ORDER BY total\_sold DESC

LIMIT 1

Q10: Which region, by  name, has the highest amount of sales in USD?  
  
SELECT

region.name AS name\_region,

SUM(orders.total) AS total\_sold

FROM region

JOIN

sales\_reps ON region.id = sales\_reps.region\_id

JOIN

accounts ON sales\_reps.id = accounts.sales\_rep\_id

JOIN orders ON accounts.id = orders.account\_id

GROUP BY region.name

ORDER BY total\_sold DESC

LIMIT 1  
  
Q11: Categorize each region’s average sales as “Above Average” or “Below Average” based on the average for the company as a whole.