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2nd SEMESTER MASTERS IN APPLIED ECONOMICS

DEPARTMENT OF ECONOMICS

DEANERY OF HUMANITIES AND SOCIAL SCIENCES

1. SELECT

passenger\_count

FROM `bigquery-public-data.new\_york\_taxi\_trips.tlc\_green\_trips\_2014`

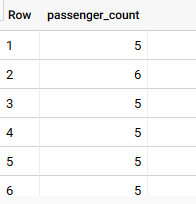
Where

passenger\_count > 3

LIMIT

30

**RESULTS**



**2.** **S**ELECT

place\_name,

rooms,

ROUND(AVG(surface\_covered\_in\_m2)) AS avg\_surface\_covered\_m2

FROM

`properati-data-public.properties\_co.properties\_sell\_201706`

WHERE

property\_type = "apartment"

AND operation = "sell"

AND rooms > 0

AND surface\_covered\_in\_m2 > 0

GROUP BY

place\_name,

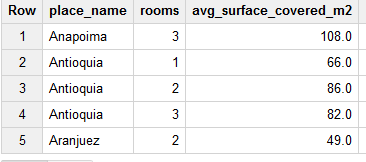
rooms

ORDER BY

place\_name,

rooms

RESULT:



3. SELECT

se.cause\_code

,COUNT(r.id) as number\_of\_tsunami

FROM

`bigquery-public-data.noaa\_tsunami.historical\_runups` r

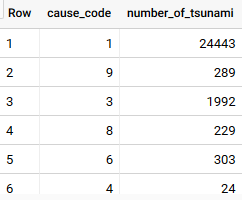
INNER JOIN `bigquery-public-data.noaa\_tsunami.historical\_source\_event` se

ON r.tsevent\_id=se.id

WHERE se.cause\_code != 0

GROUP BY 1

LIMIT 1000



4. SELECT

COUNT(date\_local) AS NUM\_OF\_DAYS,

CASE

WHEN aqi < 51 THEN "Good (green)"

WHEN aqi <101 THEN "Moderate (yellow)"

WHEN aqi <151 THEN "Unhealthy for sensitive groups (orange)"

WHEN aqi <201 THEN "Unhealthy (red)"

WHEN aqi <301 THEN "Very unhealthy (purple)"

WHEN aqi <501 THEN "Hazardous (maroon)"

ELSE "unexpected data"

END AS AQ\_RATING

FROM

`bigquery-public-data.epa\_historical\_air\_quality.pm25\_frm\_daily\_summary`

WHERE

city\_name = "Los Angeles"

AND state\_name = "California"

AND sample\_duration = "24 HOUR"

AND poc = 1

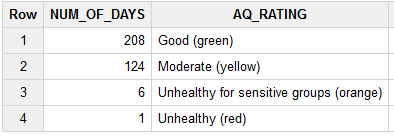
AND EXTRACT(YEAR FROM date\_local) = 2015

GROUP BY

2

ORDER BY

1 DESC RESULTS:



5.SELECT

COUNT(DISTINCT(fdic\_certificate\_number)) AS count\_banks,

city,

state\_name

FROM

`bigquery-public-data.fdic\_banks.institutions`

GROUP BY

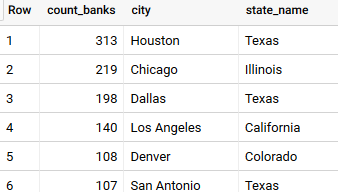
city,

state\_name

ORDER BY

count\_banks desc

**Results**



**6.** SELECT

place\_name,

rooms,

ROUND(AVG(surface\_covered\_in\_m2)) AS avg\_surface\_covered\_m2

FROM

`properati-data-public.properties\_br.properties\_sell\_201706`

WHERE

property\_type = "apartment"

AND operation = "sell"

AND rooms > 0

AND surface\_covered\_in\_m2 > 0

GROUP BY

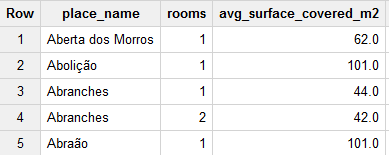
place\_name,

rooms

ORDER BY

place\_name,

rooms



7. SELECT

COUNT(DISTINCT(fdic\_certificate\_number)) AS count\_banks,

city,

state\_name

FROM

`bigquery-public-data.fdic\_banks.institutions`

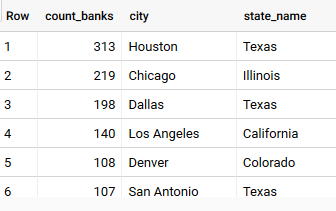
GROUP BY

city,

state\_name

ORDER BY

count\_banks desc



8. SELECT

(SUM (total\_transactions\_per\_user) / COUNT(fullVisitorId) ) AS avg\_total\_transactions\_per\_user

FROM (

SELECT

fullVisitorId,

SUM (totals.transactions) AS total\_transactions\_per\_user

FROM

`bigquery-public-data.google\_analytics\_sample.ga\_sessions\_\*`

WHERE

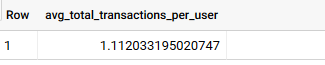
\_TABLE\_SUFFIX BETWEEN '20170701'

AND '20170731'

AND totals.transactions IS NOT NULL

GROUP BY

fullVisitorId )



9. SELECT

device.browser,

SUM ( totals.transactions ) AS total\_transactions

FROM

`bigquery-public-data.google\_analytics\_sample.ga\_sessions\_\*`

WHERE

\_TABLE\_SUFFIX BETWEEN '20170701'

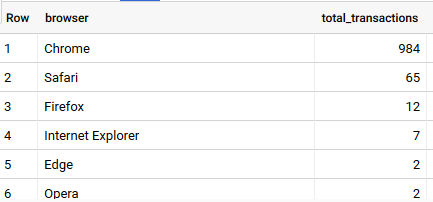
AND '20170731'

GROUP BY

device.browser

ORDER BY

total\_transactions DESC



10. SELECT

EXTRACT(YEAR FROM creation\_date) AS Year,

COUNT(\*) AS Number\_of\_Questions,

ROUND(100 \* SUM(IF(answer\_count > 0, 1, 0)) / COUNT(\*), 1) AS Percent\_Questions\_with\_Answers

FROM `bigquery-public-data.stackoverflow.posts\_questions`

GROUP BY Year

HAVING

Year = 2015

# Use to query a range of years (warning this query processes all records)

# Year > 2009 AND Year < 2016 ORDER BY Year

