SQL 201 ASSIGNMENT 101

1. For different category of acquirers, what is the average number of months since the inception of the acquired company after which they are acquired.​

SELECT

acquisitions.acquirer\_category\_code,

(

AVG(

ROUND(

cast(acquisitions.acquired\_at\_cleaned AS date) - cast(companies.founded\_at\_clean AS date)

) / 30

)

)

FROM

tutorial.crunchbase\_companies\_clean\_date AS companies

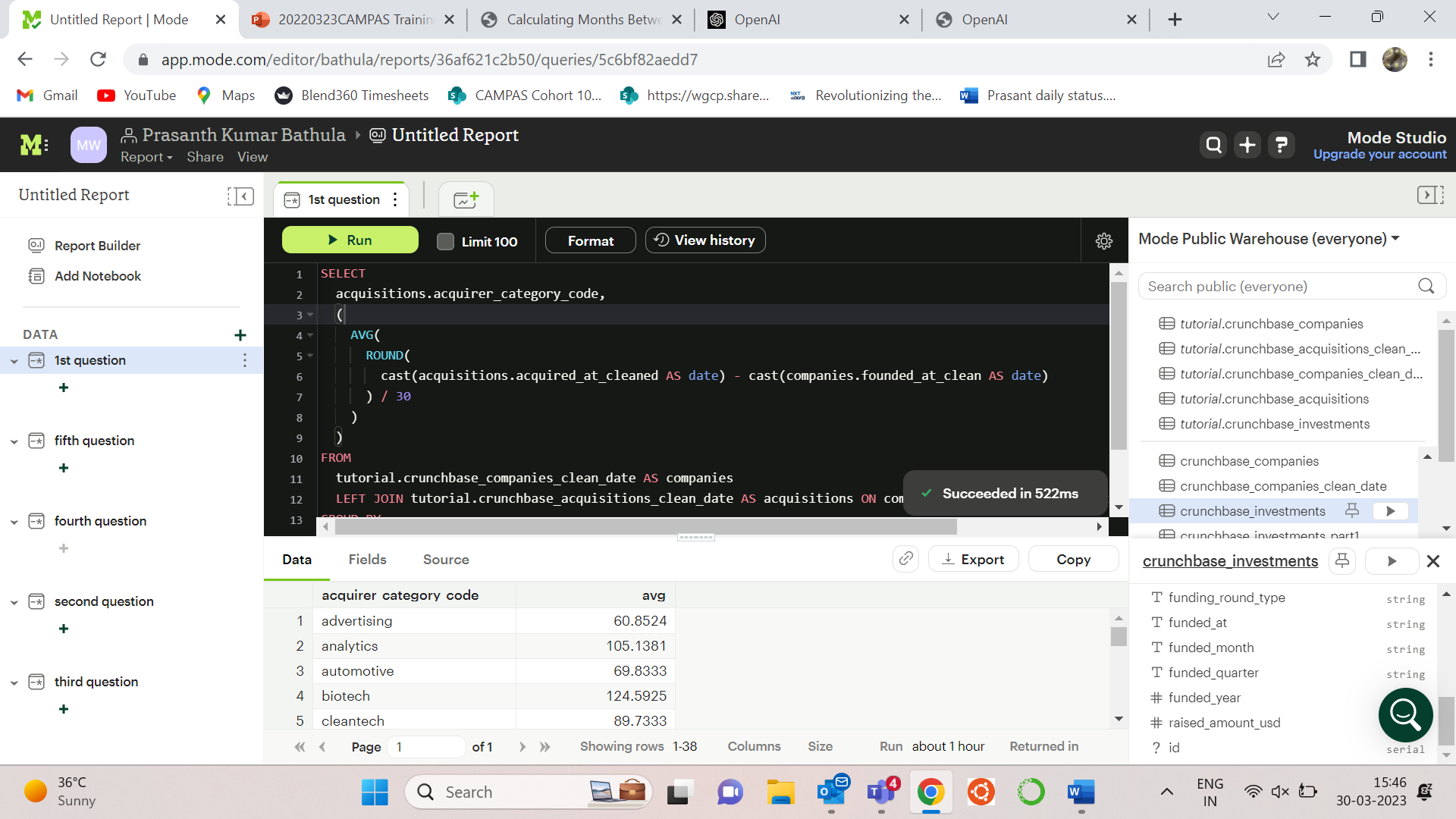
LEFT JOIN tutorial.crunchbase\_acquisitions\_clean\_date AS acquisitions ON companies.permalink = acquisitions.company\_permalink

GROUP BY

acquisitions.acquirer\_category\_code

ORDER BY

acquisitions.acquirer\_category\_code;



2)Is there any trend for quarters when more companies are acquired ?

SELECT

substring(acquired\_quarter, 6, 7) AS quarter,

count(company\_name) AS no\_of\_companies\_aquired

FROM

tutorial.crunchbase\_acquisitions

GROUP BY

quarter

ORDER BY

no\_of\_companies\_aquired DESC;

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3) For each company\_category\_code identify the average raised\_amount\_usd per quarter​?

SELECT

company\_category\_code,

round(

(

SELECT

avg(raised\_amount\_usd)

FROM

tutorial.crunchbase\_investments AS sub1

WHERE

out.company\_category\_code = sub1.company\_category\_code

AND substring(funded\_quarter, 6, 7) = 'Q1'

)

) AS quarter\_1,

round(

(

SELECT

avg(raised\_amount\_usd)

FROM

tutorial.crunchbase\_investments AS sub1

WHERE

out.company\_category\_code = sub1.company\_category\_code

AND substring(funded\_quarter, 6, 7) = 'Q2'

)

) AS quarter\_2,

round(

(

SELECT

avg(raised\_amount\_usd)

FROM

tutorial.crunchbase\_investments AS sub1

WHERE

out.company\_category\_code = sub1.company\_category\_code

AND substring(funded\_quarter, 6, 7) = 'Q3'

)

) AS quarter\_3,

round(

(

SELECT

avg(raised\_amount\_usd)

FROM

tutorial.crunchbase\_investments AS sub1

WHERE

out.company\_category\_code = sub1.company\_category\_code

AND substring(funded\_quarter, 6, 7) = 'Q4'

)

) AS quarter\_4

FROM

tutorial.crunchbase\_investments AS out

GROUP BY

company\_category\_code;

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4) Which investor is more likely to invest in USA based companies?

SELECT

investor\_name,

count(investor\_name) AS no\_of\_investments

FROM

tutorial.crunchbase\_investments

WHERE

company\_country\_code = 'USA'

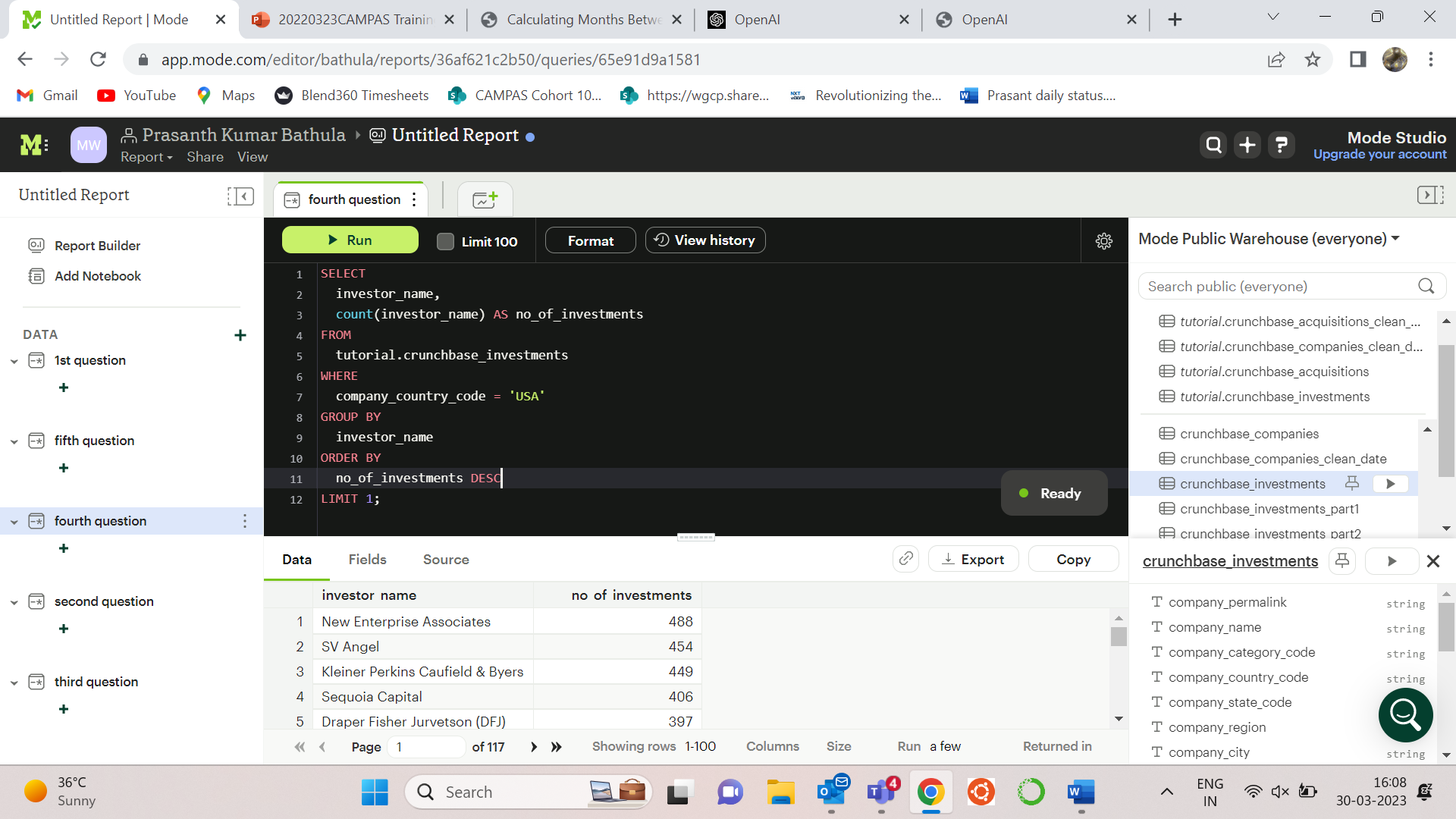
GROUP BY

investor\_name

ORDER BY

no\_of\_investments DESC

LIMIT 1;



5) For different type of funding rounds, what is the average raised amount per quarter​?

SELECT

funding\_round\_type,

round(

(

SELECT

avg(raised\_amount\_usd)

FROM

tutorial.crunchbase\_investments AS sub1

WHERE

out. funding\_round\_type = sub1. funding\_round\_type

AND substring(funded\_quarter, 6, 7) = 'Q1'

)

) AS quarter\_1,

round(

(

SELECT

avg(raised\_amount\_usd)

FROM

tutorial.crunchbase\_investments AS sub1

WHERE

out. funding\_round\_type = sub1. funding\_round\_type

AND substring(funded\_quarter, 6, 7) = 'Q2'

)

) AS quarter\_2,

round(

(

SELECT

avg(raised\_amount\_usd)

FROM

tutorial.crunchbase\_investments AS sub1

WHERE

out. funding\_round\_type = sub1. funding\_round\_type

AND substring(funded\_quarter, 6, 7) = 'Q3'

)

) AS quarter\_3,

round(

(

SELECT

avg(raised\_amount\_usd)

FROM

tutorial.crunchbase\_investments AS sub1

WHERE

out. funding\_round\_type = sub1. funding\_round\_type

AND substring(funded\_quarter, 6, 7) = 'Q4'

)

) AS quarter\_4

FROM

tutorial.crunchbase\_investments AS out

GROUP BY

funding\_round\_type;

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6) Identify companies that received an investment from Japan following an investment from Great Britain where investor is finance category company​?

SELECT

\*

FROM

(

SELECT distinct

company\_name,

funded\_at,

lead(funded\_at) over(

PARTITION by company\_name

ORDER BY

funded\_at ASC

),

investor\_country\_code,

lead(investor\_country\_code) over(PARTITION by company\_name) AS next\_country

FROM

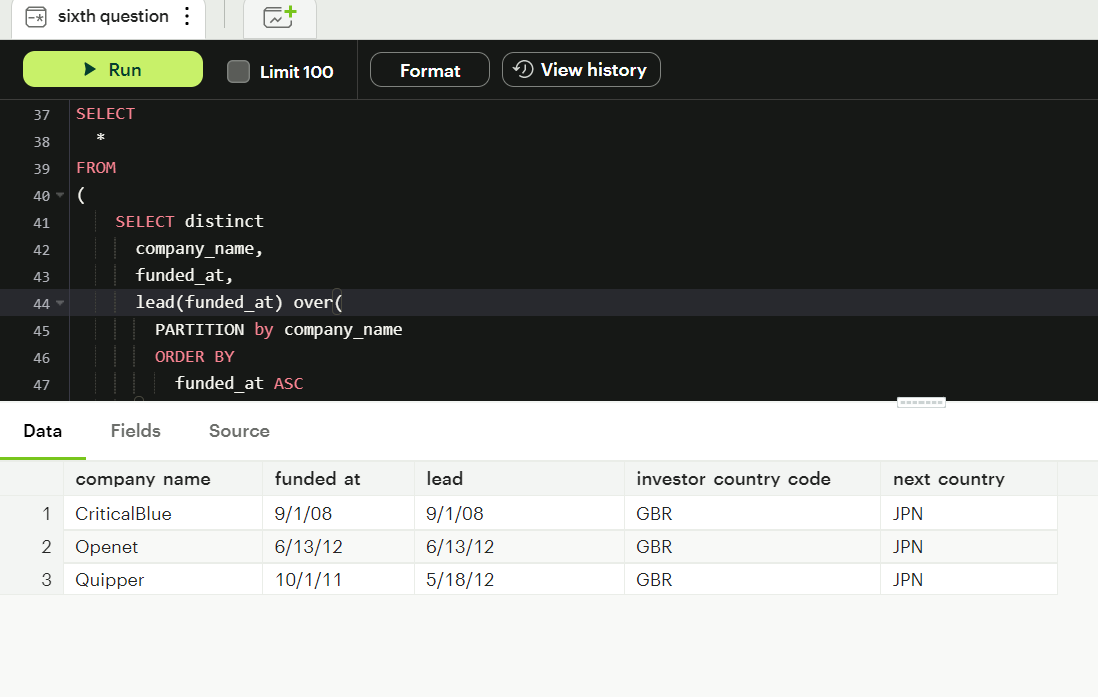
tutorial.crunchbase\_investments

) AS out

WHERE

next\_country = 'JPN'

AND investor\_country\_code = 'GBR';



1. Out  of all 'operating' status companies, which category of companies have the highest average funding\_total\_usd?​

SELECT

category\_code,

avg(funding\_total\_usd) AS avg\_funding\_total\_usd

FROM

tutorial.crunchbase\_companies\_clean\_date

WHERE

STATUS = 'operating'

GROUP BY

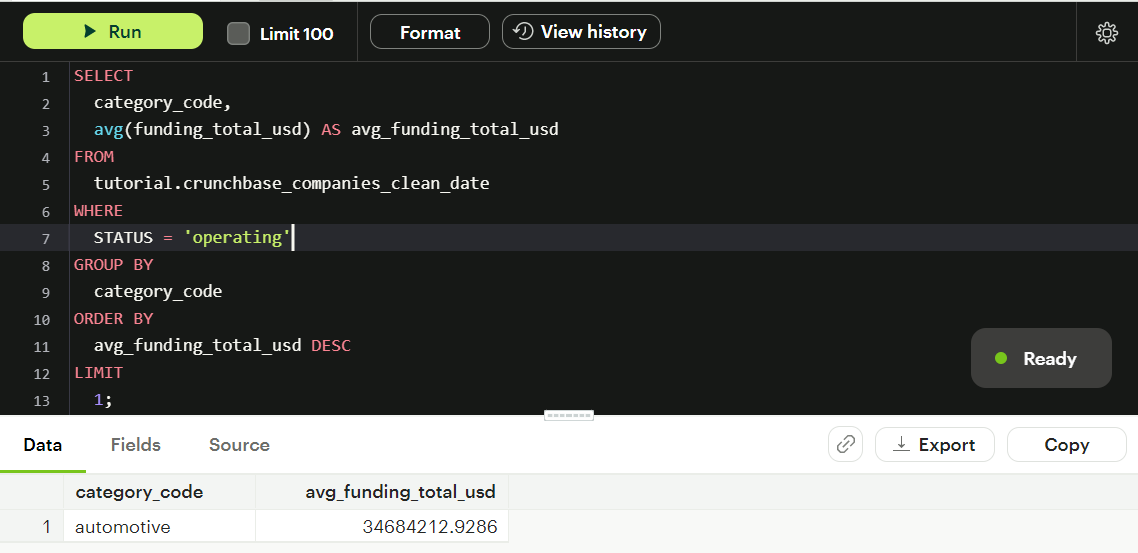
category\_code

ORDER BY

avg\_funding\_total\_usd DESC

LIMIT

1;



1. For each category, what percent of companies received funding within 3 years of their founding?​

SELECT

category\_code,

CASE

WHEN NOT category\_code ISNULL THEN (

cast(

(

SELECT

count(DISTINCT name)

FROM

tutorial.crunchbase\_companies AS sub

WHERE

sub.category\_code = out.category\_code

AND (

cast(sub.first\_funding\_at AS date) - cast(sub.founded\_at AS date)

) < 1095

) AS float

) / cast(

(

SELECT

count(DISTINCT name)

FROM

tutorial.crunchbase\_companies AS sub

WHERE

out.category\_code = sub.category\_code

) AS float

)

) \* 100

ELSE (cast(

(

SELECT

count(DISTINCT name)

FROM

tutorial.crunchbase\_companies AS sub

WHERE

sub.category\_code isnull

AND (

cast(sub.first\_funding\_at AS date) - cast(sub.founded\_at AS date)

) < 1095

) AS float

) / cast(

(

SELECT

count(DISTINCT name)

FROM

tutorial.crunchbase\_companies AS sub

WHERE

sub.category\_code IS NULL

) AS float

)

) \* 100

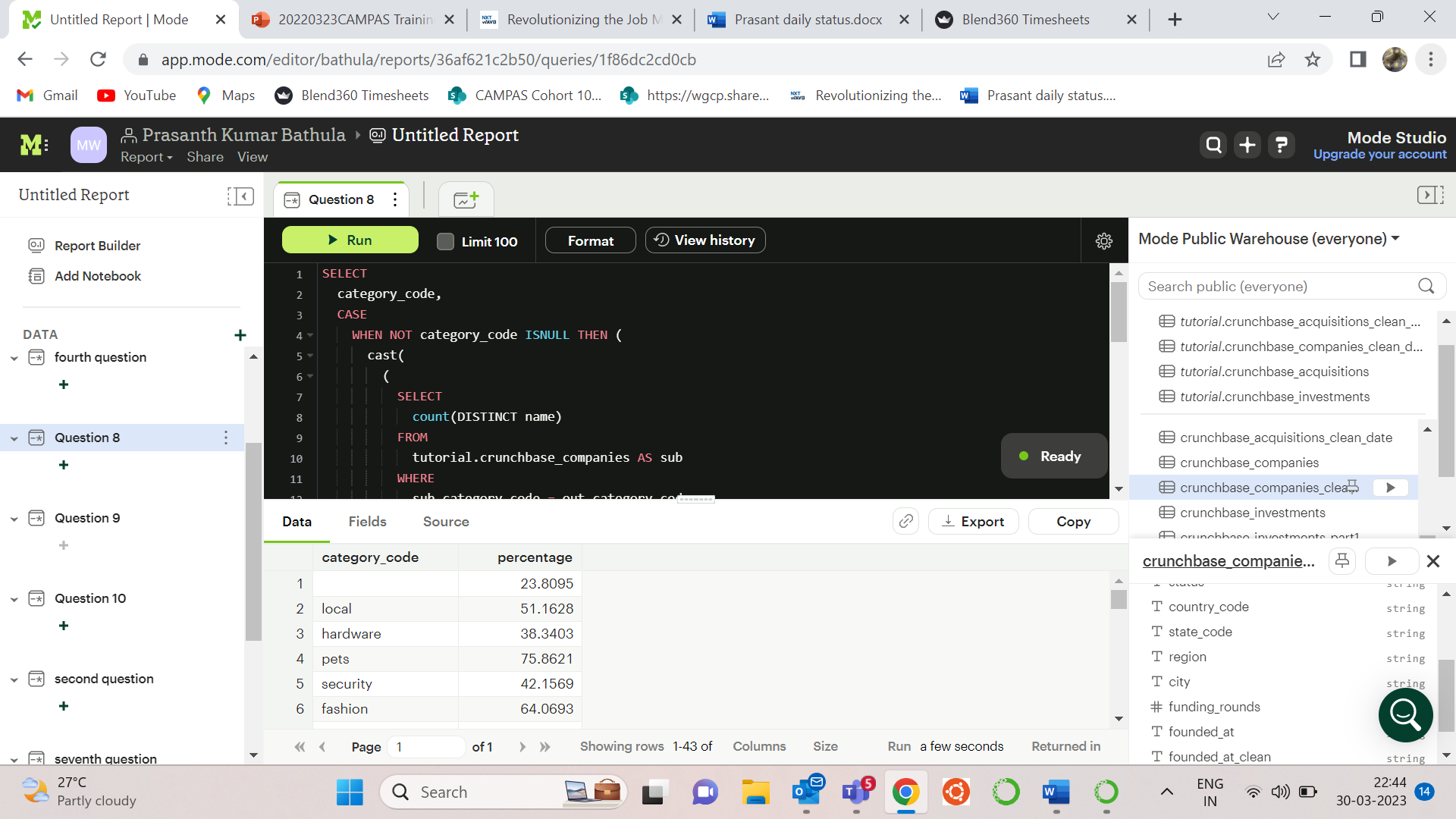
END AS percentage

FROM

tutorial.crunchbase\_companies AS out

GROUP BY

category\_code;



1. Clean the 'last\_funding\_at' column (convert it to time stamp) and get the time difference with the current time.​

SELECT

cast(last\_funding\_at AS timestamp),

NOW() - cast(last\_funding\_at AS timestamp) AS difference\_in\_days

FROM

tutorial.crunchbase\_companies;

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