**Khushal Soni SQL201 Assignment 1**

Q1. For different category of acquirers, what is the average number of months since the inception of the acquired company after which they are acquired?

ANS- SELECT

COALESCE(a.acquirer\_category\_code, 'missing') AS acquirer\_category\_code,

ROUND(avg(abs(a.acquired\_at :: date - c.founded\_at\_clean :: date)/(365/12)), 1) AS idff

FROM tutorial.crunchbase\_acquisitions\_clean\_date a

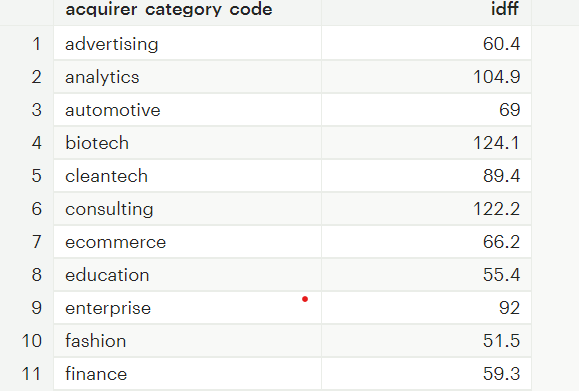
LEFT JOIN tutorial.crunchbase\_companies\_clean\_date c ON a.company\_permalink = c.permalink

WHERE c.founded\_at\_clean IS NOT NULL

GROUP BY 1

ORDER BY 1

Result-



Q2. Is there any trend for quarters when more companies are acquired?

Query –

SELECT

SUM(CASE WHEN extract(month from acquired\_at\_cleaned) ::integer <= 3 THEN 1 ELSE 0 END) as Q1,

SUM(CASE WHEN extract(month from acquired\_at\_cleaned) ::integer <=6

AND extract(month from acquired\_at\_cleaned) ::integer >3 THEN 1 ELSE 0 END) as Q2,

SUM(CASE WHEN extract(month from acquired\_at\_cleaned) ::integer <=9

AND extract(month from acquired\_at\_cleaned) ::integer >6 THEN 1 ELSE 0 END) as Q3,

SUM(CASE WHEN extract(month from acquired\_at\_cleaned) ::integer <=12

AND extract(month from acquired\_at\_cleaned) ::integer >9 THEN 1 ELSE 0 END) as Q4

FROM tutorial.crunchbase\_acquisitions\_clean\_date

WHERE acquired\_at\_cleaned is not null

Result –

Graphical user interface, application, table

Description automatically generated

Q3. For each company\_category\_code identify the average raised\_amount\_usd per quarter?

Query –

SELECT COALESCE(company\_category\_code,'others') as categories,

SUBSTRING(funded\_quarter FROM 6 FOR 2) quarters,

ROUND(AVG(raised\_amount\_usd :: numeric)) AS average\_raised\_amount

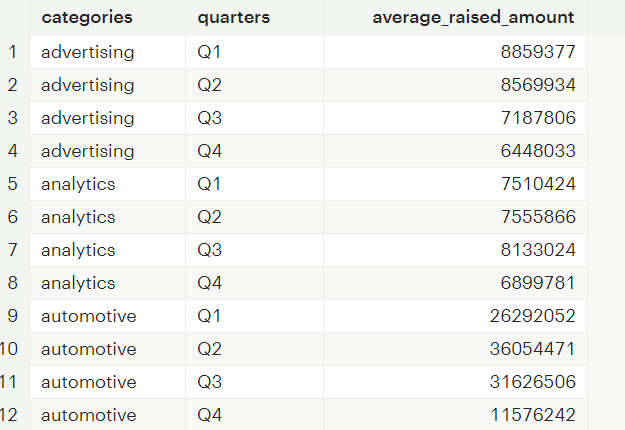
FROM tutorial.crunchbase\_investments

WHERE raised\_amount\_usd IS NOT NULL

GROUP BY 1,2

ORDER BY 1,2

Result-



Q4. Which investor (company ) is more likely to invest in USA based companies?

Query –

select investor\_name , count(\*)

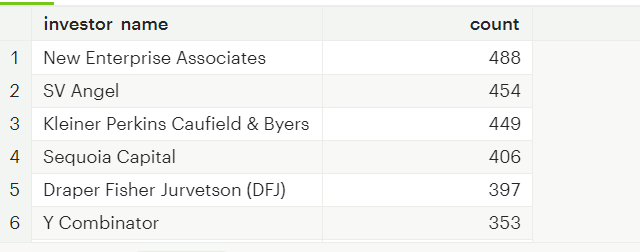
from tutorial.crunchbase\_investments

where company\_country\_code = 'USA'

group by 1

order by count(\*) desc

result -



Q5. For different type of funding rounds, what is the average raised amount per quarter?

Query –

SELECT COALESCE(funding\_round\_type,'others') round\_type ,SUBSTRING(funded\_quarter FROM 6 FOR 2) quarter,

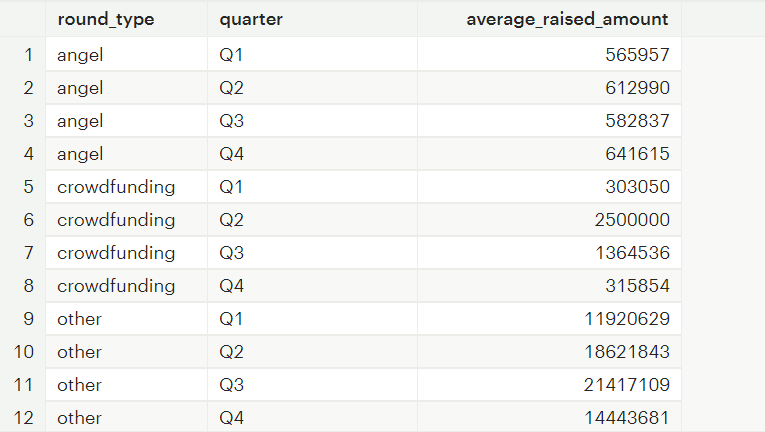
ROUND(AVG(raised\_amount\_usd :: numeric)) as average\_raised\_amount

FROM tutorial.crunchbase\_investments

WHERE raised\_amount\_usd IS NOT NULL

GROUP BY 1,2

Result-



Q6. Identify companies that received an investment from Japan following an investment from Great Britain where investor is finance category company?

SELECT a.company\_name

FROM (

SELECT company\_name, investor\_country\_code,

lead(investor\_country\_code) OVER( order by funded\_at ) AS next\_investor\_country

from tutorial.crunchbase\_investments

here investor\_category\_code = 'finance') a

WHERE a.investor\_country\_code = 'GBR' AND a.next\_investor\_country = 'JPN'

Q7. Out of all 'operating' status companies, which category of companies have the highest average funding\_total\_usd?

Query-

SELECT category\_code, AVG(funding\_total\_usd) ::integer as Avg\_Funding

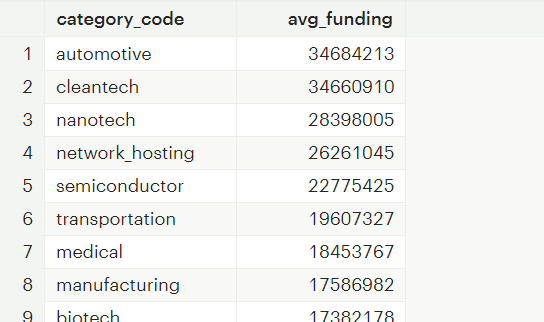
FROM tutorial.crunchbase\_companies\_clean\_date

WHERE status='operating'

GROUP BY category\_code

order by 2 desc

result-



Q8. For each category, what percent of companies received funding within 3 years of their founding?

Query –

SELECT COALESCE(category\_code,'others') category,

ROUND(100\*SUM(CASE WHEN (first\_funding\_at :: date - founded\_at :: date)<1095 THEN 1

ELSE 0 END)/(count(category\_code)::decimal),2) as Percentage

FROM tutorial.crunchbase\_companies

where category\_code IS NOT NULL

AND first\_funding\_at IS NOT NULL

AND founded\_at IS NOT NULL

GROUP BY 1

Result-



Q9. Clean the 'last\_funding\_at' column (convert it to time stamp) and get the time difference with the current time.

SELECT \*, last\_funding\_at :: date as last\_funding\_at\_cleaned ,

(now() - last\_funding\_at :: date) AS time\_difference

FROM tutorial.crunchbase\_companies

