***SQL ASSIGNMENT-1***

**Ques-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.

**Query-**

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

ROUND(AVG((a.acquired\_at\_cleaned :: date - c.founded\_at\_clean:: date)/(365.25/12)),2) AS avg\_no\_of\_months

FROM tutorial.crunchbase\_companies\_clean\_date c

JOIN tutorial.crunchbase\_acquisitions\_clean\_date a

ON c.permalink = a.company\_permalink

WHERE c.founded\_at\_clean IS NOT NULL

GROUP BY 1

Result-

A picture containing graphical user interface

Description automatically generated

**Ques-2** Is there any trend for quarters when more companies are acquired.

**Query-**

SELECT

CASE

WHEN extract(month FROM acquired\_at\_cleaned) <=3 THEN 'Q1'

WHEN extract(month FROM acquired\_at\_cleaned) <=6 THEN 'Q2'

WHEN extract(month FROM acquired\_at\_cleaned) <=9 THEN 'Q3'

ELSE 'Q4'

END as quarter,

COUNT(\*) AS no\_of\_companies\_acquired

FROM tutorial.crunchbase\_acquisitions\_clean\_date

GROUP BY 1

ORDER BY 2 DESC;

Table

Description automatically generated

**Ques-3** For each company\_category\_code identify the average raised\_amount\_usd per quarter?

**Query-**

SELECT COALESCE(category\_code,'other') AS company\_category\_code ,

CASE

WHEN extract(month FROM founded\_at\_clean :: date) <=3 THEN 'Q1'

WHEN extract(month FROM founded\_at\_clean :: date) <=6 THEN 'Q2'

WHEN extract(month FROM founded\_at\_clean :: date) <=9 THEN 'Q3'

ELSE 'Q4'

END as quarter,

ROUND(AVG(funding\_total\_usd)::numeric, 2) AS average\_raised\_amount\_usd

FROM tutorial.crunchbase\_companies\_clean\_date

WHERE funding\_total\_usd IS NOT NULL AND

founded\_at\_clean IS NOT NULL

GROUP BY 1,2

ORDER BY 1,2

**Result**

Table

Description automatically generated

**Ques-4** 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

LIMIT 1;

Table

Description automatically generated

**Ques-5** For different type of funding rounds, what is the average raised amount per quarter.

**Query-**

SELECT funding\_rounds,

CASE

WHEN extract(month FROM to\_date(founded\_at\_clean,'yyyy-mm-dd')) <=3 THEN 'Q1'

WHEN extract(month FROM to\_date(founded\_at\_clean,'yyyy-mm-dd')) <=6 THEN 'Q2'

WHEN extract(month FROM to\_date(founded\_at\_clean,'yyyy-mm-dd')) <=9 THEN 'Q3'

ELSE 'Q4'

END as quarter,

ROUND(AVG(funding\_total\_usd)::numeric,2) as avg\_raised\_amount

FROM tutorial.crunchbase\_companies\_clean\_date

WHERE founded\_at\_clean IS NOT NULL

GROUP BY 1,2

ORDER BY 1,2

**Result**

Table

Description automatically generated

**Ques-6** Identify companies that received an investment from Japan following an investment from Great Britain where investor is finance category company.

**Query-**

SELECT a.company\_name

FROM (

SELECT company\_name, investor\_country\_code,

lag(investor\_country\_code) OVER( order by funded\_at :: date ASC) AS prev\_investor\_country

from tutorial.crunchbase\_investments

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

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

**Result-**

Graphical user interface, text, application

Description automatically generated

**Ques-7** Out of all 'operating' status companies, which category of companies have the highest average funding\_total\_usd?

**Query-**

SELECT COALESCE(category\_code, 'other') as category\_code,

ROUND(AVG(funding\_total\_usd) :: numeric , 2) as avg\_funding\_total\_usd

FROM tutorial.crunchbase\_companies\_clean\_date

WHERE status = 'operating'

GROUP BY 1

ORDER BY 2 DESC

LIMIT 1

**Result-**

**Table

Description automatically generated**

**Ques-8** For each category, what percent of companies received funding within 3 years of their founding?

**Query –**

SELECT COALESCE(category\_code, 'other') AS com\_category,

SUM(CASE WHEN ABS(first\_funding\_at::date - founded\_at ::date)<=365\*3 THEN 1 ELSE 0 END)::numeric/count(\*)\*100 perc\_companies

FROM tutorial.crunchbase\_companies

GROUP BY 1

ORDER BY 2 DESC

**Result –**

**A picture containing table

Description automatically generated**

**Ques-9** Clean the 'last\_funding\_at' column (convert it to time stamp) and get the time difference with the current time.

**Query –**

SELECT AGE(NOW(), last\_funding\_at::date) AS days\_since\_last\_funding

FROM tutorial.crunchbase\_companies

WHERE last\_funding\_at IS NOT NULL;

**Result –**



**Ques-10** list of company got closed after getting funding since one year of inception

**Query-**

select name

from tutorial.crunchbase\_companies

where status = 'closed' AND founded\_at IS NOT NULL AND (abs((first\_funding\_at :: date - founded\_at :: date))/365.25) <=1

**Result-**



**Ques- 11** Different status count in different category of the companies.

**Query**

SELECT COALESCE(category\_code, 'other') AS category\_code,

COALESCE(SUM(CASE WHEN status = 'acquired' THEN 1 END),0) acquired\_count,

COALESCE(SUM(CASE WHEN status = 'ipo' THEN 1 END),0) ipo\_count,

COALESCE(SUM(CASE WHEN status = 'operating' THEN 1 END),0) operating\_count,

COALESCE(SUM(CASE WHEN status = 'closed' THEN 1 END),0) closed\_count

FROM tutorial.crunchbase\_companies

GROUP BY 1

ORDER BY 1

**Result –**

**A picture containing graphical user interface

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