create database project

use project

select \* from sharktankproject

-- =========================================================

-- Project: Shark Tank Data Analysis

-- Description: This project involves analyzing the data from the Shark Tank TV show. The goal is to explore

-- various business attributes such as industry type, valuation, investments, and more. We aim to answer

-- key business questions using SQL queries and provide insights to stakeholders.

-- Table: sharktankproject

-- This table contains information about startups pitching to investors (sharks) on Shark Tank.

-- ====================================================================================================

-- Query to fetch all records from the Shark Tank project table

SELECT \*

FROM sharktankproject;

-- 1. Lets retrive all data of startup and industry or there yearly revenue

SELECT Startup\_Name, Industry, Yearly\_Revenue FROM SharkTankproject;

-- 2. List of all the startups industries or get total revenuw from each industry .

select distinct(industry) from sharktankproject

-- or So we have total 17 industry now let get all the total revenue for the same

select distinct industry, SUM(Yearly\_Revenue) AS Total\_revenue

from sharktankproject

group by industry;

-- 3. Now lets get the startups with yearly revenue greater than 50 crores.

select startup\_name, Yearly\_revenue from sharktankproject where Yearly\_revenue > 50;

-- 4. Now geting the list whose startup is register before the covid or after the covid means 2020

select Startup\_name, Started\_in from SharkTankproject where Started\_in >= 2020;

-- or the data before the covid

select Startup\_name, Started\_in from SharkTankproject where Started\_in <= 2020;

-- Here is other insight for advance level is the Total Count of Startups Before and After 2020 using case command

Select

sum(case when Started\_in < 2020 then 1 Else 0 end) as Startups\_Before\_2020,

sum(case when Started\_in >= 2020 then 1 else 0 end) as Startups\_After\_2020,

count (\*) as Total\_Startups

FROM SharkTankproject;

-- 5. Lets we need now all startups with a Gross Margin greater than 30%.

select Industry, startup\_name, gross\_margin from sharktankproject

where gross\_margin >= 30

order by Industry;

-- 6. First lets Find startups that received a deal from the sharks.

select startup\_name, total\_deal\_amount from sharktankproject

where received\_offer = 1

order by total\_deal\_amount Asc;

-- 7. Well lets get the total deal amount for startups with accepted offers in descending order;

select startup\_name, total\_deal\_amount from sharktankproject

where accepted\_offer = 1

order by total\_deal\_amount desc;

-- 8. Now lets Retrieve all startups where the original ask amount is less than 1 crore.

select startup\_name, original\_ask\_amount from sharktankproject

where original\_ask\_amount > 100;

-- 9. lets calculate the which one is more in the number of male and female presenters across sharktank

select male\_presenters, Female\_presenters from sharktankproject; -- to get which type of data is available

select

sum(Male\_Presenters) as Total\_male\_presenters,

sum(Female\_Presenters) as Total\_female\_presenters

from SharkTankproject;

--10. Now get list of company who has patent

select startup\_name, has\_patents from sharktankproject

where has\_patents = 'Yes'

select \* from sharktankproject

-- 11. Now find which part of indian state has more startup

select distinct Pitchers\_state, count(Startup\_name) as Total\_startup

from SharkTankproject

group by Pitchers\_state

order by total\_startup desc;

-- 12. Now lets find city wise total startup available in india and get only top 15 city who

select Top 15 Pitchers\_City, count(Startup\_name) as Total\_startup

from SharkTankproject

group by Pitchers\_City

order by total\_startup desc;

-- 13. lets get the List of startups where the Total Deal Equity is greater than 10% amd get seasonwise data.

select Season\_number, startup\_name, total\_Deal\_Equity from sharktankproject

where total\_deal\_equity > 10;

-- 14. lets Find the startups that received an offer but did not accept it.

Select Startup\_Name, industry

From sharktankproject

Where Received\_Offer = 1 AND Accepted\_Offer = 0;

-- 15. lets Find the startups with the highest valuation requested.

Select Startup\_Name, season\_number, Valuation\_Requested

From sharktankproject

Order by Season\_number, Valuation\_Requested DESC;

-- 16. List the startups where more than 3 sharks invested.

Select season\_number, Startup\_Name

From sharktankproject

Where Number\_Of\_Sharks\_In\_Deal > 3;

-- 17. List the businesses from Delhi or Pune that received offers.

Select Season\_number, Startup\_Name, Pitchers\_City

From sharktankproject

Where (Pitchers\_City = 'Delhi' OR Pitchers\_City = 'Pune') AND Received\_Offer = 1;

-- 18. Find the startups with the highest net margin.

Select TOP 50 Startup\_Name, Net\_Margin

From sharktankproject

Order by Net\_Margin DESC;

-- 19. Find all businesses in the "Food" industry that have patents.

Select Season\_number, Startup\_Name

from sharktankproject

where Industry = 'Food' AND Has\_Patents = 'yes';

-- 20. Find businesses where the valuation requested is greater than the total deal amount.

select Season\_number, Startup\_Name, Valuation\_Requested, Total\_Deal\_Amount

from sharktankproject

where Valuation\_Requested > Total\_Deal\_Amount;

-- 21. List startups that have both Namita and Vineeta as investors.

select Season\_number, Startup\_Name

from sharktankproject

where Namita\_Investment\_Amount > 0 AND Vineeta\_Investment\_Amount > 0;

--22. Find businesses with a monthly sales greater than the average for all businesses.

Select Startup\_Name, Monthly\_Sales

from sharktankproject

where Monthly\_Sales >

(select AVG(Monthly\_Sales) from sharktankproject);

-- 23. Calculate the total debt for all businesses that received an offer.

Select sum(Total\_Deal\_Debt) as Total\_Debt\_Received\_Offer

from sharktankproject

where Received\_Offer = 1;

-- 24. Calculate the percentage change in the total deal amount from the first to the last season.

WITH FirstSeasonDeal AS (

SELECT

SUM(Total\_Deal\_Amount) AS FirstSeasonDeal

From sharktankproject

Where Season\_Number = 1

),

LastSeasonDeal AS (

SELECT

SUM(Total\_Deal\_Amount) AS LastSeasonDeal

from sharktankproject

whereSeason\_Number = (SELECT MAX(Season\_Number) FROM sharktankproject)

)

select (LastSeasonDeal - FirstSeasonDeal) / FirstSeasonDeal \* 100 as PercentageChange

from FirstSeasonDeal, LastSeasonDeal;

-- 25. Create a report showing the number of businesses that received offers by city and state.

SELECT

Pitchers\_City,

Pitchers\_State,

COUNT(\*) AS NumberOfOffers

From sharktankproject

Where Received\_Offer = 1

group by Pitchers\_City, Pitchers\_State

order by NumberOfOffers Desc;

-- 26. lets calculate the total debt, deal, investment for each season and episodes.

select

Season\_Number,

sum(Total\_Deal\_Debt) as TotalDebt,

count(Episode\_number) as episodes,

sum(Total\_deal\_Amount) as TotalDealamt,

sum(Deal\_valuation) as TotalValuation

from sharktankproject

group by Season\_Number

order by TotalDebt;

select \* from sharktankproject

-- 27. Now whats the average number of sharks investing per startup

-- and list startup with above-average shark involvement.

WITH AvgSharks as (

select

AVG(Number\_Of\_Sharks\_In\_Deal) as AverageSharks

from sharktankproject

)

select

Startup\_Name,

season\_number,

Number\_Of\_Sharks\_In\_Deal

from sharktankproject, AvgSharks

where Number\_Of\_Sharks\_In\_Deal > AverageSharks;

-- 28. List the startup where the startup valuation requested was higher than the industry average.

WITH Industry\_Avg as (

select

Industry,

AVG(Valuation\_Requested) AS IndustryAvgValuation

from sharktankproject

group by Industry

)

select

s.Industry,

s.startup\_name,

s.Valuation\_Requested

from sharktankproject s

JOIN Industry\_Avg ia ON s.Industry = ia.Industry

where s.Valuation\_Requested > ia.IndustryAvgValuation

--29. Identify startup with a gross margin greater than the average gross margin.

WITH AvgGrossMargin as (

select

AVG(Gross\_Margin) as AvgGrossMargin

from

sharktankproject

)

select

Startup\_Name,

Gross\_Margin

from sharktankproject, AvgGrossMargin

where Gross\_Margin > AvgGrossMargin;

-- 30. Calculate the percentage of startup that received offers with conditions across seasons.

select

Season\_Number,

count(CASE WHEN Deal\_Has\_Conditions = 'yes' THEN 1 END) \* 100.0 / count(\*) as PercentageWithConditions

from sharktankproject

group by Season\_Number;

-- 31. lets Calculate the percentage of shartup where more than one shark invested across all seasons.

Select

(Count(CASE WHEN Number\_Of\_Sharks\_In\_Deal > 1 THEN 1 END) \* 100.0 / COUNT(\*)) AS PercentageMultiSharkInvestments

From sharktankproject;

--32. Identifing the industries where at least 50% of businesses received offers.

Select Industry

From sharktankproject

Group by Industry

Having Count(CASE WHEN Received\_Offer = 1 THEN 1 END) \* 1.0 / COUNT(\*) >= 0.5;

--33. Find all the sharks investment and there equity

select\* from SharkTankProject

SELECT

Season\_Number, Startup\_Name, Industry,

Namita\_Investment\_Amount AS Investment\_Amount,

Namita\_Investment\_Equity AS Investment\_Equity,

'Namita' AS Investor

FROM SharkTankproject

WHERE Namita\_Investment\_Amount IS NOT NULL AND Namita\_Investment\_Equity IS NOT NULL

UNION ALL

SELECT

Season\_Number, Startup\_Name, Industry,

Vineeta\_Investment\_Amount AS Investment\_Amount,

Vineeta\_Investment\_Equity AS Investment\_Equity,

'Vineeta' AS Investor

FROM SharkTankproject

WHERE Vineeta\_Investment\_Amount IS NOT NULL AND Vineeta\_Investment\_Equity IS NOT NULL

UNION ALL

SELECT

Season\_Number, Startup\_Name, Industry,

Ashneer\_Investment\_Amount AS Investment\_Amount,

Ashneer\_Investment\_Equity AS Investment\_Equity,

'Ashneer' AS Investor

FROM SharkTankproject

WHERE Ashneer\_Investment\_Amount IS NOT NULL AND Ashneer\_Investment\_Equity IS NOT NULL

UNION ALL

SELECT

Season\_Number, Startup\_Name, Industry,

Aman\_Investment\_Amount AS Investment\_Amount,

Aman\_Investment\_Equity AS Investment\_Equity,

'Aman' AS Investor

FROM SharkTankproject

WHERE Aman\_Investment\_Amount IS NOT NULL AND Aman\_Investment\_Equity IS NOT NULL

UNION ALL

SELECT

Season\_Number, Startup\_Name, Industry,

Anupam\_Investment\_Amount AS Investment\_Amount,

Anupam\_Investment\_Equity AS Investment\_Equity,

'Anupam' AS Investor

FROM SharkTankproject

WHERE Anupam\_Investment\_Amount IS NOT NULL AND Anupam\_Investment\_Equity IS NOT NULL

UNION ALL

SELECT

Season\_Number, Startup\_Name, Industry,

Peyush\_Investment\_Amount AS Investment\_Amount,

Peyush\_Investment\_Equity AS Investment\_Equity,

'Peyush' AS Investor

FROM SharkTankproject

WHERE Peyush\_Investment\_Amount IS NOT NULL AND Peyush\_Investment\_Equity IS NOT NULL

UNION ALL

SELECT

Season\_Number, Startup\_Name, Industry,

Amit\_Investment\_Amount AS Investment\_Amount,

Amit\_Investment\_Equity AS Investment\_Equity,

'Amit' AS Investor

FROM SharkTankproject

WHERE Amit\_Investment\_Amount IS NOT NULL AND Amit\_Investment\_Equity IS NOT NULL;