**Shark Tank India Analysis - Documentation**

**Project Overview**

This project involves analyzing data from Shark Tank India to extract valuable insights about investments, industries, and investor preferences. The SQL analysis uses structured queries to:

- Understand patterns in funding.

- Identify top-performing industries and startups.

- Provide actionable insights using advanced SQL techniques.

**Objectives**

1. Data Exploration: Understand the dataset, including industries, funding amounts, and shark preferences.

2. Investment Trends: Analyze trends across industries, investment amounts, and individual investors.

3. Decision Making: Provide recommendations for startups and investors based on historical data.

**Prerequisites**

- A relational database like MySQL, PostgreSQL, or SQL Server.

- Shark Tank India dataset loaded into your database.

- SQL file containing prewritten queries with inline comments for guidance.

**Files**

- **`Shark Tank India Analysis.sql`:** Contains all the queries used for data analysis, organized into sections.

**Methodology and Query Breakdown**

**1. Data Understanding**

- **Objective**: Load and explore the dataset.

- Example Query:

SELECT \* FROM shark\_tank\_data LIMIT 10;

- **Purpose**: Understand the structure, columns, and data types.

**2. Industry Analysis**

- **Objective**: Find industries receiving the highest investments.

SELECT industry, SUM(funding\_amount) AS total\_investment

FROM shark\_tank\_data

GROUP BY industry

ORDER BY total\_investment DESC;

- **Result**: Ranks industries by total funding received.

**3. Investor Insights**

- **Objective**: Identify which sharks are the most active.

SELECT investor\_name, COUNT(\*) AS deals\_count

FROM shark\_tank\_data

GROUP BY investor\_name

ORDER BY deals\_count DESC;

- **Result**: A leaderboard of active investors.

**4. Funding Trends**

- **Objective:** Analyze the average funding amount over time.

SELECT funding\_year, AVG(funding\_amount) AS avg\_funding

FROM shark\_tank\_data

GROUP BY funding\_year

ORDER BY funding\_year;

- **Result**: Year-over-year funding trends.

**5. Advanced Analysis**

- **Objective**: Use window functions to rank startups by funding.

SELECT startup\_name, industry, funding\_amount,

RANK() OVER (PARTITION BY industry ORDER BY funding\_amount DESC) AS rank

FROM shark\_tank\_data;

- **Result**: Identifies top-funded startups within each industry.

**How to Use This File**

1. Load the `Shark Tank India Analysis.sql` file into your SQL editor.

2. Run the queries step-by-step to explore the dataset.

3. Modify queries as needed for further analysis.

**Future Work**

- Integrate visualization tools like Tableau or Power BI.

- Expand the dataset with data from other seasons or regions.