Create Database World\_University\_Rankings\_Analysis;

Use World\_University\_Rankings\_Analysis;

-- import table

select \* from uni\_rankings2024;

/\* Data Exploration Using SQL

Explore the structure of the dataset using basic SQL queries

(e.g., SELECT, COUNT(), GROUP BY, etc.).\*/

-- View the structure of the table

describe uni\_rankings2024;

-- Check the total number of record

select count(\*) from uni\_rankings2024;

-- 3. Analysis Questions

-- i. Top Universities by Overall Score

Create view Top10\_uni as

select university, Overall from uni\_rankings2024 order by overall desc

limit 10;

select \* from Top10\_uni;

-- ii. Top Countries by Research Performance

Create view Top10\_countryR as

select country, avg(research) as avg\_research\_score from uni\_rankings2024

group by country order by avg\_research\_score desc

limit 10;

select \* from top10\_countryr;

# iii. Impact of International Outlook on Rankings

select University,rank ,international outlook from uni\_rankings2024

where international outlook > 90;

select \* from uni\_rankings2024;

select university, max(teaching) from uni\_rankings2024

group by university order by max(teaching) desc

limit 1;

# iv. Correlation Between Industry Income and Rankings

select University,rank ,Industry Income from uni\_rankings2024

where Industry Income > 90;

/\* 5. Conclusion and Insights

From the SQL queries, we can derive the following insights:

• Top Universities:

The top 10 universities by overall score typically belong to countries with strong research and teaching performances.

• Research Performance:

Countries such as the US and the UK tend to dominate research performance metrics, correlating with their high university rankings.

• International Outlook Influence:

A high international outlook score generally correlates with better university rankings, though some universities may rank highly with moderate outlook scores due to strong research or teaching metrics.

• Industry Income:

High industry income can be found among top universities, but it is not always a decisive factor in overall ranking compared to research and citations.

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