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SQL Projects

Database - Pelican Store

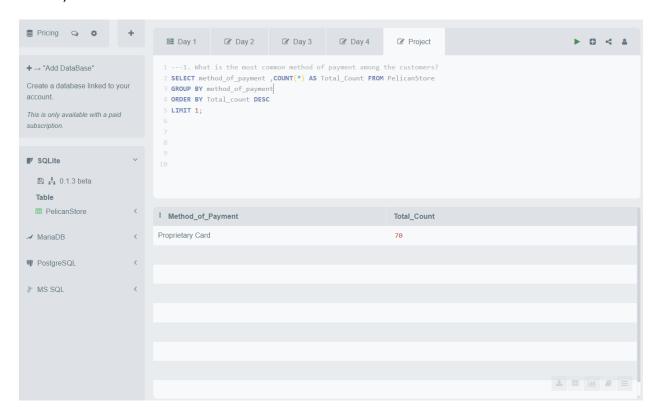
Q1. What is the most common method of payment among the customers?

SELECT method_of_payment ,COUNT(*) AS Total_Count FROM PelicanStore

GROUP BY method_of_payment

ORDER BY Total_count DESC

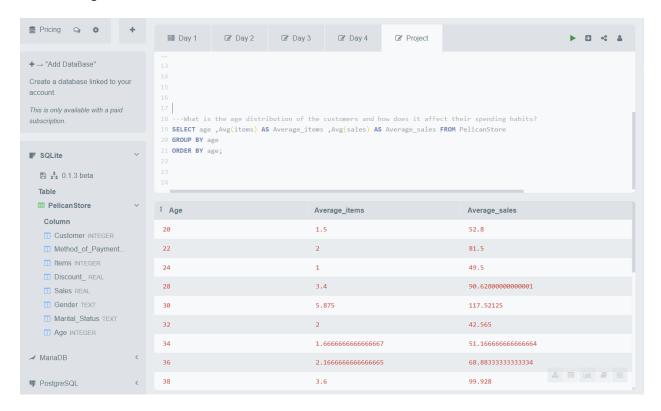
LIMIT 1;



Q2.What is the age distribution of the customers and how does it affect their spending habits?

SELECT age ,Avg(items) AS Average_items ,Avg(sales) AS Average_sales FROM PelicanStore GROUP by age

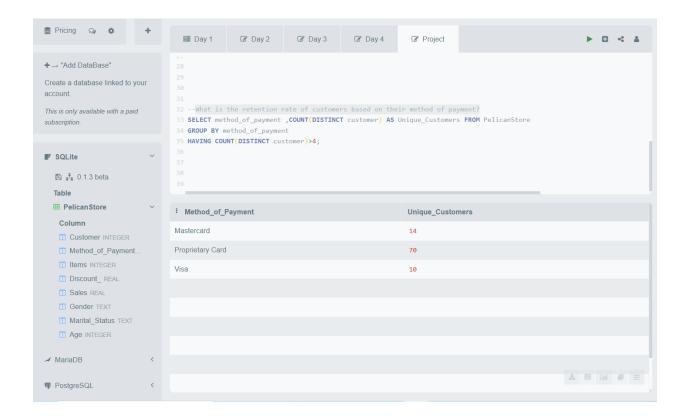
ORDER BY age;



Q3. What is the retention rate of customers based on their method of payment?

SELECT method_of_payment ,COUNT(DISTINCT customer) as Unique_Customers FROM PelicanStore GROUP by method_of_payment

HAVING COUNT(DISTINCT customer)>4;

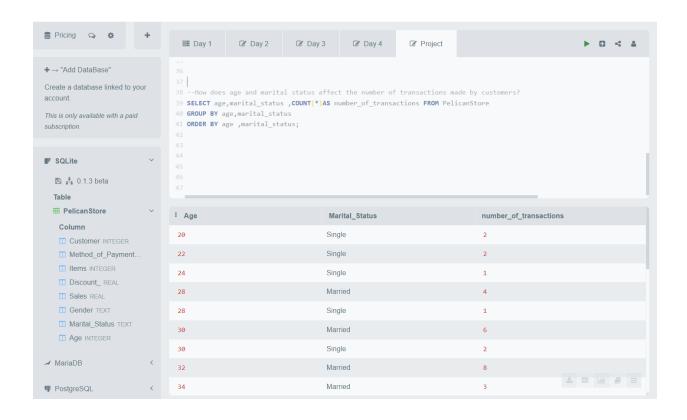


Q4. How does age and marital status affect the number of transactions made by customers?

SELECT age,marital_status ,COUNT(*)as number_of_transactions FROM PelicanStore

GROUP by age, marital_status

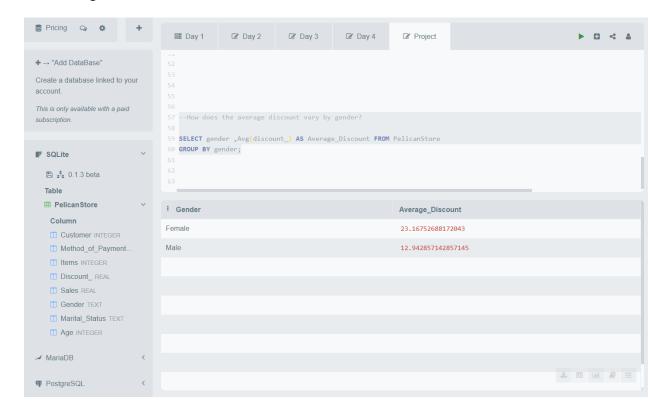
order BY age ,marital_status;



Q5. How does the average discount vary by gender?

SELECT gender ,Avg(discount_) AS Average_Discount from PelicanStore

GROUP BY gender;



Database - World_cup_data

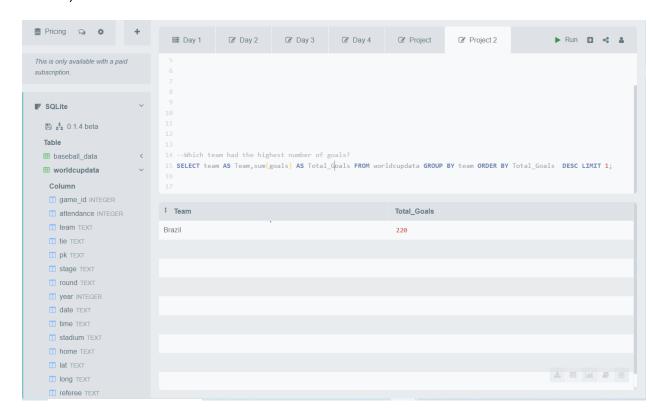
Q6. Which team had the highest number of goals

SELECT team AS Team, sum (goals) AS Total_Goals FROM worldcupdata

GROUP BY team

ORDER BY Total_Goals DESC

LIMIT 1;

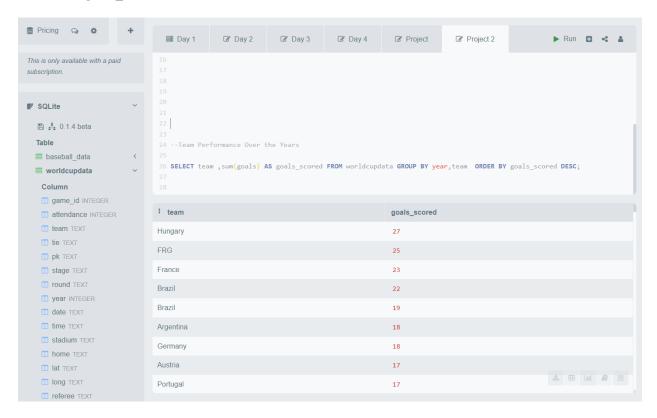


Q7.Team Performance over the Years

SELECT team ,sum(goals) AS goals_scored FROM worldcupdata

GROUP BY year, team

ORDER BY goals_scored DESC;



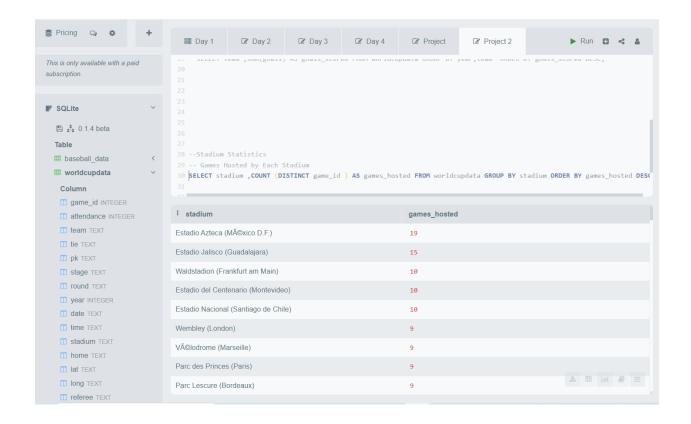
Q8. Stadium Statistics

Games Hosted by Each Stadium

SELECT stadium ,COUNT (DISTINCT game_id) As games_hosted FROM worldcupdata

GROUP by stadium

ORDER BY games_hosted DESC;



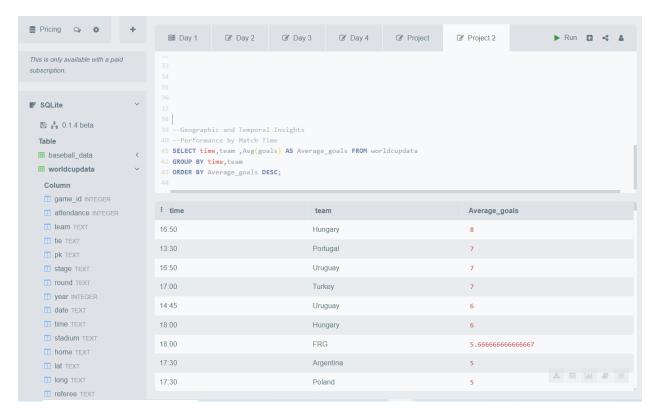
Q9.Geographic and Temporal Insights

Performance by Match Time

SELECT time,team ,Avg(goals) AS Average_goals FROM worldcupdata

GROUP by time, team

ORDER by Average_goals DESC;



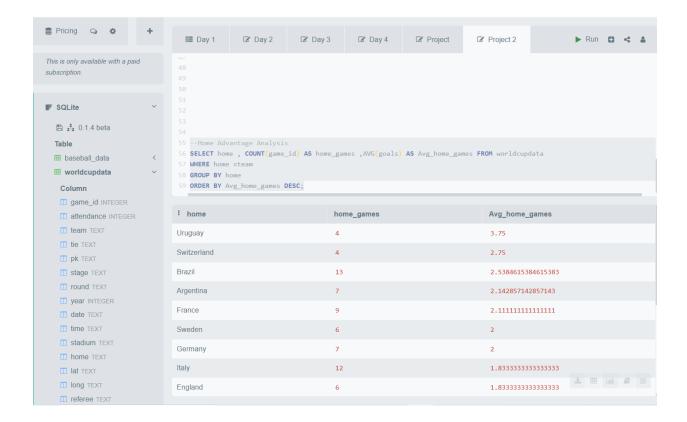
Q10 .Home Advantage Analysis

 ${\tt SELECT\ home\ ,\ COUNT(game_id)\ AS\ home_games\ ,} AVG(goals)\ AS\ Avg_home_games\ FROM\ worldcupdata$

WHERE home =team

GROUP BY home

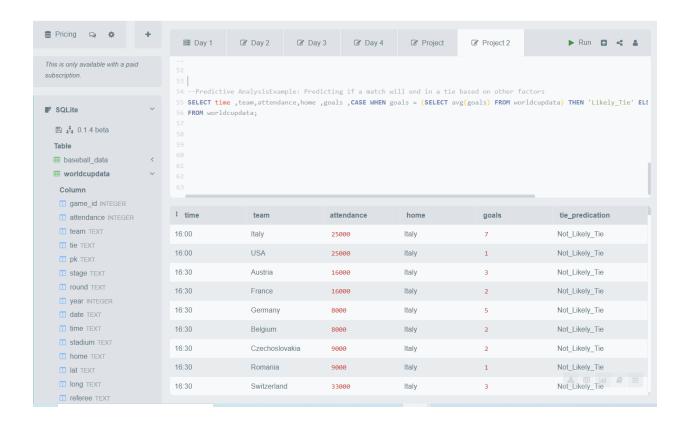
ORDER BY Avg_home_games DESC;



Q11. Predictive Analysis: Predicting if a match will end in a tie based on other factors

SELECT time ,team,attendance,home ,goals ,CASE WHEN goals = (SELECT avg(goals) FROM worldcupdata) THEN 'Likely_Tie' ELSE'Not_Likely_Tie' END AS tie_predication

FROM worldcupdata;

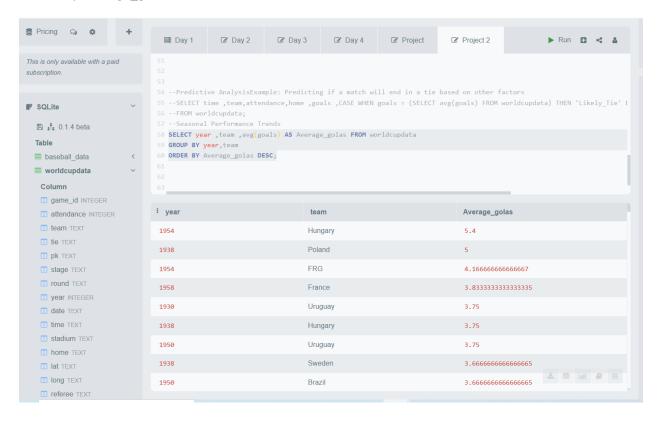


Q12.Seasonal Performance Trends

SELECT year ,team ,avg(goals) AS Average_golas FROM worldcupdata

GROUP by year, team

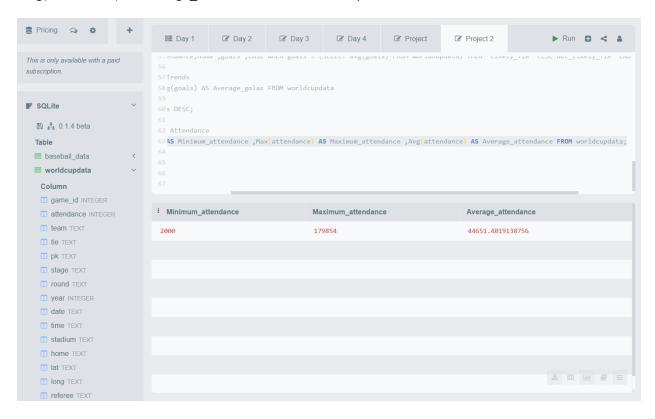
ORDER by Average_golas DESC;



Q13.Attendance Analysis

Min, Max, and Average Attendance

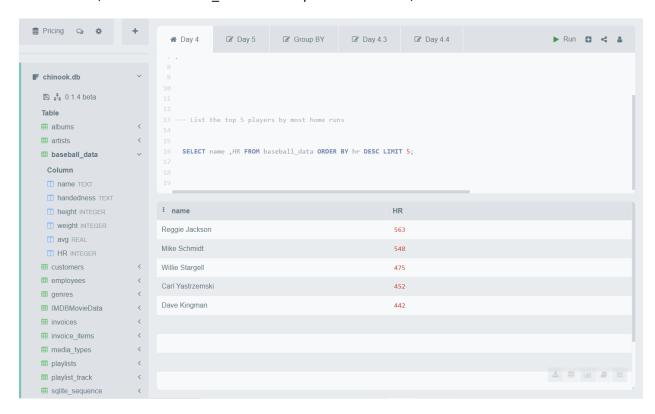
SELECT min(attendance) AS Minimum_attendance ,Max(attendance) AS Maximum_attendance ,Avg(attendance) AS Average_attendance FROM worldcupdata;



Database – baseball data

Q14. List the top 5 players by most home runs

SELECT name, HR FROM baseball_data ORDER by HR DESC LIMIT 5;

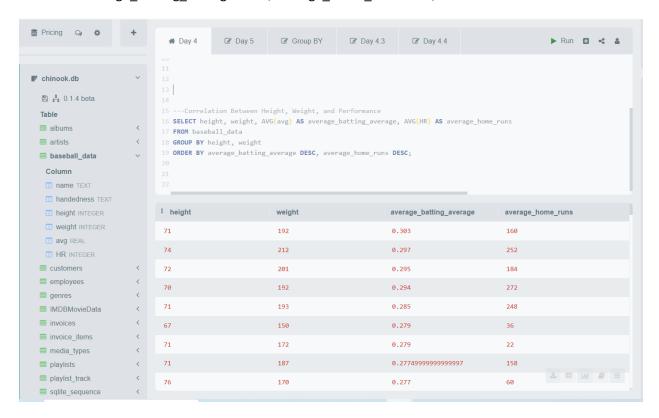


Q15. Correlation Between Height, Weight, and Performance

SELECT height, weight, AVG(avg) AS average_batting_average, AVG(HR) AS average_home_runs FROM baseball_data

GROUP BY height, weight

ORDER BY average_batting_average DESC, average_home_runs DESC;

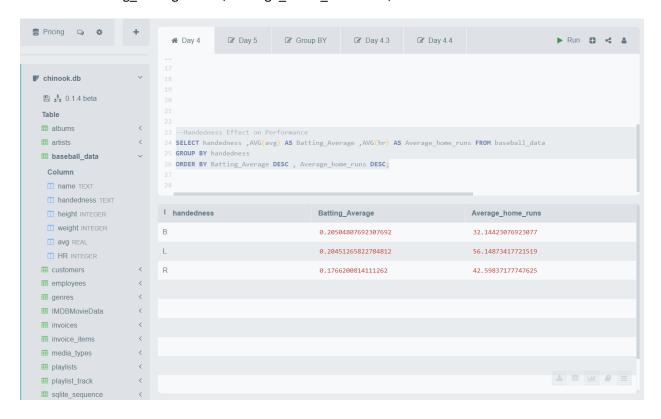


Q.16 Handedness Effect on Performance

SELECT handedness ,AVG(avg) AS Batting_Average ,AVG(hr) AS Average_home_runs FROM baseball_data

GROUP BY handedness

ORDER BY Batting_Average DESC, Average_home_runs DESC;

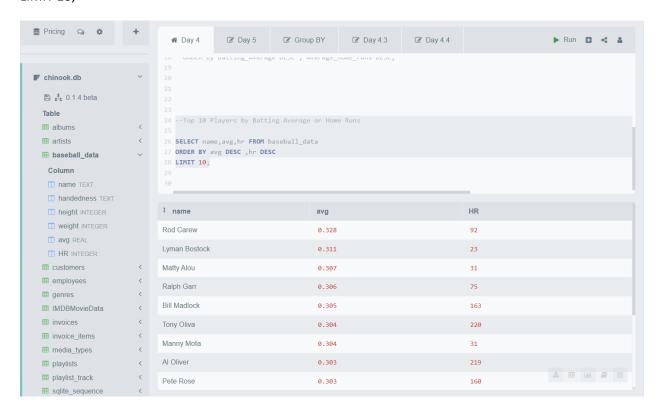


Q17 .Top 10 Players by Batting Average or Home Runs

SELECT name, avg, hr FROM baseball_data

ORDER by avg DESC, hr DESC

LIMIT 10;



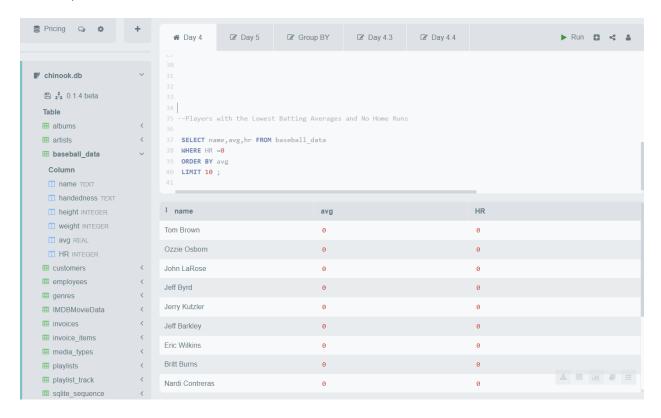
Q.18 Players with the Lowest Batting Averages and No Home Runs

SELECT name, avg, hr from baseball_data

where HR =0

ORDER by avg

limit 10;



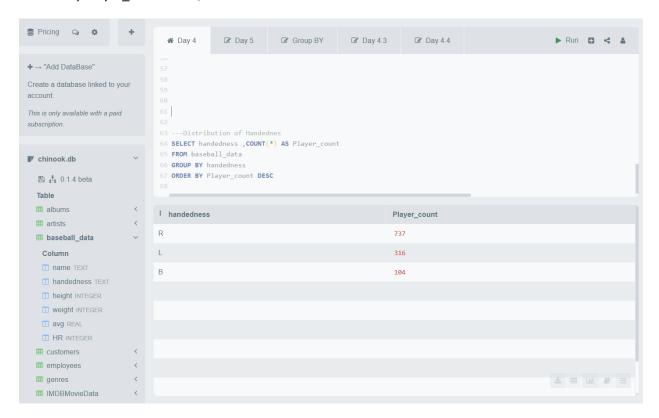
Q19.Distribution of Handedness

SELECT handedness ,COUNT(*) As Player_count

FROM baseball_data

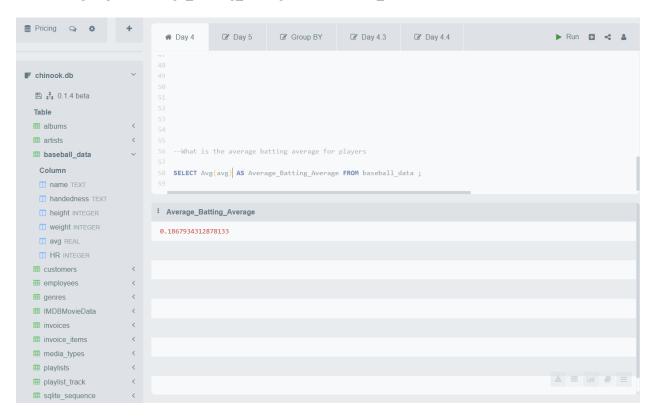
GROUP BY handedness

ORDER by Player_count DESC;



Q20 .What is the average batting average for players

SELECT Avg(avg) As Average_Batting_Average from baseball_data;



Q21. What is the distribution of albums among different artists (Database – Chinook.db)

SELECT name, COUNT (albumid) AS Album_Count from albums INNER JOIN artists on albums. ArtistId = artists. ArtistId GROUP by name order BY Album_Count DESC LIMIT 10;

