SQL Queries for Admission Challenge

Preliminary Data Analysis

Questions	SQL Query
What are the names of the top 3 campaigns by the amount of money pledged? **Linked to "1-PreliminaryAnalysisSQL" sheet on "PreliminaryAnalysisSQL.xlsx" file**	`SELECT cam.name as campaign_name, cat.name,sub.name, cam.pledged, curr.name as currency FROM campaign cam INNER JOIN sub_category sub ON cam.sub_category_id = sub.id INNER JOIN currency curr ON cam.currency_id = curr.id INNER JOIN category cat ON sub.category_id = cat.id ORDER BY pledged DESC LIMIT 3`
Determine if the funding goal differs significantly between successful and failed campaigns. **Linked to "2-PreliminaryAnalysisSQL" sheet on "PreliminaryAnalysisSQL.xlsx" file**	`SELECT cat.name as campaign_category, outcome, AVG(goal) as avg_goal FROM campaign cam INNER JOIN sub_category sub ON cam.sub_category_id = sub.id INNER JOIN currency curr ON cam.currency_id = curr.id INNER JOIN category cat ON sub.category_id = cat.id WHERE curr.name = 'USD' AND (outcome = 'successful')`

	`` GROUP BY campaign_category, outcome; SELECT cat.name as campaign_category, outcome, AVG(goal) as avg_goal FROM campaign cam INNER JOIN sub_category sub ON cam.sub_category_id = sub.id INNER JOIN currency curr ON cam.currency_id = curr.id INNER JOIN category cat ON sub.category_id = cat.id WHERE curr.name = 'USD' AND (outcome = failed) GROUP BY campaign_category, outcome; ```
Name the three countries that had the highest number of campaigns. Assume: include all possible outcomes **Linked to "3-PreliminaryAnalysisSQL" sheet on "PreliminaryAnalysisSQL.xlsx" file**	``` SELECT coun.name as country_name, count(*) AS count_campaigns FROM campaign cam INNER JOIN country coun ON cam.country_id = coun.id GROUP BY coun.name ORDER BY count_campaigns DESC LIMIT 3; ```
What is the average amount pledged per backer for successful campaigns? Assume: Group the average amount pledged per backer for successful campaigns by category and consider USD only based on the scope of the business problem **Linked to "4-PreliminaryAnalysisSQL" sheet on "PreliminaryAnalysisSQL.xlsx" file**	``` SELECT cat.name as campaign_category, ROUND(SUM(pledged)/SUM(backers),2) AS avg_pledged_per_backer FROM campaign cam INNER JOIN sub_category sub ON cam.sub_category_id = sub.id INNER JOIN currency curr ON cam.currency_id = curr.id ```

	`` INNER JOIN category cat ON sub.category_id = cat.id WHERE outcome = 'successful' and curr.name = 'USD' GROUP BY cat.name ORDER BY avg_pledged_per_backer DESC; ```
How many sub-categories have an average per backer pledge greater than 250 dollars? (Hint: after the GROUP BY clause, the aggregates are filtered with a HAVING clause). Assume: Considered USD only based on the scope of the business problem **Linked to "5-PreliminaryAnalysisSQL" sheet on "PreliminaryAnalysisSQL.xlsx" file**	``` SELECT COUNT(*) FROM (SELECT cat.name as cat_name,sub.name as sub_cat_name,round(SUM(pledged)/SUM(backers),2) as avg_pledged_per_backers FROM campaign cam INNER JOIN sub_category sub ON cam.sub_category_id = sub.id INNER JOIN currency curr ON cam.currency_id = curr.id INNER JOIN category cat ON sub.category_id = cat.id WHERE curr.name = 'USD' GROUP BY cat_name, sub_cat_name HAVING avg_pledged_per_backers > 250 ORDER BY avg_pledged_per_backers DESC); ```

Data Visualization

Description	SQL Query
Returns the average goals of successful and failed game campaigns **Linked to “1-DV” sheet on “DataVisualization.xlsx” file**	`SELECT sub.name as campaign_sub_category, outcome, round(AVG(goal),2) as avg_goal FROM campaign cam INNER JOIN sub_category sub ON cam.sub_category_id = sub.id INNER JOIN currency curr ON cam.currency_id = curr.id INNER JOIN category cat ON sub.category_id = cat.id WHERE curr.name = 'USD' AND outcome = 'failed' AND cat.name = 'Games' GROUP BY campaign_sub_category, outcome;`  `SELECT sub.name as campaign_sub_category, outcome, round(AVG(goal),2) as avg_goal FROM campaign cam INNER JOIN sub_category sub ON cam.sub_category_id = sub.id INNER JOIN currency curr ON cam.currency_id = curr.id INNER JOIN category cat ON sub.category_id = cat.id WHERE curr.name = 'USD' AND outcome = 'successful' AND cat.name = 'Games' GROUP BY campaign_sub_category, outcome;`

Returns the average backers of successful game campaigns **Linked to “2-DV” sheet on “DataVisualization.xlsx” file**	`SELECT sub.name as campaign_sub_category, outcome, round(AVG(backers)) as avg_backer FROM campaign cam INNER JOIN sub_category sub ON cam.sub_category_id = sub.id INNER JOIN currency curr ON cam.currency_id = curr.id INNER JOIN category cat ON sub.category_id = cat.id WHERE curr.name = 'USD' AND outcome = 'successful' AND cat.name = 'Games' GROUP BY campaign_sub_category, outcome ORDER BY avg_backer;`
Returns the average pledged per backer for all game campaigns **Linked to “3-DV” sheet on “DataVisualization.xlsx” file**	`SSELECT sub.name as campaign_sub_category, round(AVG(pledged/backers),2) as avg_pledged_per_backer FROM campaign cam INNER JOIN sub_category sub ON cam.sub_category_id = sub.id INNER JOIN currency curr ON cam.currency_id = curr.id INNER JOIN category cat ON sub.category_id = cat.id WHERE curr.name = 'USD' AND outcome = 'successful' AND cat.name = 'Games' GROUP BY campaign_sub_category ORDER BY avg_pledged_per_backer;`
Returns the successful and failed tabletop campaign pledges with funding goals of USD 15,000	`SELECT cam.name as table_top_cam, pledged, goal,`

Linked to “4-DV” sheet on “DataVisualization.xlsx” file	outcome FROM campaign cam INNER JOIN sub_category sub ON cam.sub_category_id = sub.id INNER JOIN currency curr ON cam.currency_id = curr.id INNER JOIN category cat ON sub.category_id = cat.id WHERE curr.name = 'USD' AND sub.name = 'Tabletop Games' and goal = 15000 AND outcome != 'canceled' GROUP BY table_top_cam ORDER BY pledged;
Return the average number of backers for successful tabletop campaigns with as funding goal of USD 15,000 **Linked to “5-DV” sheet on “DataVisualization.xlsx” file**	SELECT cam.name as table_top_cam, backers FROM campaign cam INNER JOIN sub_category sub ON cam.sub_category_id = sub.id INNER JOIN currency curr ON cam.currency_id = curr.id INNER JOIN category cat ON sub.category_id = cat.id WHERE curr.name = 'USD' AND sub.name = 'Tabletop Games' and goal = 15000 AND outcome = 'successful' GROUP BY table_top_cam ORDER BY backers;