SQL Queries for Administration 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; SELECT coun.name as country name, count(*) AS Name the three countries that had the highest number of count campaigns campaigns. FROM campaign cam INNER JOIN country coun ON Assume: include all possible outcomes cam.country id = coun.id GROUP BY coun.name Linked to "3-PreliminaryAnalysisSQL" sheet on ORDER BY count campaigns DESC "PreliminaryAnalysisSQL.xlsx" file LIMIT 3; SELECT cat.name as campaign category, What is the average amount pledged per backer for successful campaigns? ROUND(SUM(pledged)/SUM(backers),2) AS avg pledged per backer Assume: Group the average amount pledged per backer for FROM campaign cam INNER JOIN sub category sub ON successful campaigns by category and consider USD only cam.sub category id = sub.id based on the scope of the business problem INNER JOIN currency curr ON cam.currency id = Linked to "4-PreliminaryAnalysisSQL" sheet on curr.id "PreliminaryAnalysisSQL.xlsx" file

```
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

```
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	SELECT sub.name as campaign_sub_category,
	outcome, round(AVG(goal),2) as avg_goal
Linked to "1-DV" sheet on "DataVisualization.xlsx" file	FROM campaign cam INNER JOIN sub_category sub ON
	<pre>cam.sub_category_id = sub.id</pre>
	<pre>INNER JOIN currency curr ON cam.currency_id =</pre>
	curr.id
	<pre>INNER JOIN category cat ON sub.category_id =</pre>
	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
	<pre>cam.sub_category_id = sub.id</pre>
	<pre>INNER JOIN currency curr ON cam.currency_id =</pre>
	curr.id
	<pre>INNER JOIN category cat ON sub.category_id =</pre>
	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	<pre>SELECT cam.name as table_top_cam, pledged, goal,</pre>

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

```
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;
```