- 1. Target Audience Identification
- Which age groups and demographics (e.g., location, profession) are most active on specific social media platforms?

```
SELECT Age_Group, COUNT(*) as "Number of Users"
FROM social_media_usage.user_activty
GROUP BY 1
ORDER BY 2 DESC;
```

Answer:

	Age_Group	Number of Users
•	45-54	237
	35-44	217
	25-34	199
	55-64	193
	18-24	154

```
SELECT Platform, COUNT(Platform) as "Number of Users"
FROM social_media_usage.user_activty
GROUP BY 1
ORDER BY 2 DESC;
```

Answer:

	Platform	Number of Users
•	TikTok	273
	Instagram	256
	YouTube	250
	Facebook	221

- 2. Content Strategy
- How does the level of satisfaction with content vary across different platforms?

```
SELECT Platform, AVG(Satisfaction) as "Average Satisfaction"
FROM social_media_usage.user_activty
GROUP BY 1
ORDER BY 2 DESC;
```

Answer:

	Platform	Average Satisfaction	
•	Facebook	4.9321	
	Instagram	4.9219	
	TikTok	4.8645	
	YouTube	4.7440	

- 3. Behavioral Insights:
- How does productivity loss vary by platform, and which platforms contribute most to this?

```
SELECT Platform, AVG(Productivity_loss) AS "Average Productivity Loss" FROM social_media_usage.user_activty
GROUP BY 1
ORDER BY 2 DESC;
```

Answer:

	Platform	Average Productivity Loss
•	YouTube	5.2560
	TikTok	5.1355
	Instagram	5.0781
	Facebook	5.0679

4. Campaign Optimization:

- How can campaigns be timed based on the peak hours of platform usage?

```
SELECT Platform, Time as "Peak Time"

FROM(SELECT Platform, DATE_FORMAT(Watch_TIME, '%H:%i') AS "Time",

COUNT(*), ROW_NUMBER() OVER (PARTITION BY Platform ORDER BY COUNT(*)

DESC) AS rn

FROM social_media_usage.user_activty

GROUP BY 1,2

ORDER BY 3 DESC, 1 ASC)

AS a

WHERE rn = 1;
```

Answer:

	Platform	Peak Time
•	TikTok	14:00
	YouTube	14:00
	Instagram	21:00
	Facebook	14:00

- Target Age Group, the reason they watch, and the platform they watch on the most

```
WITH a AS (
   SELECT Age Group, COUNT(*)
   FROM social_media_usage.user_activty
   GROUP BY Age_Group
   LIMIT 1),
   SELECT Watch_Reason, COUNT(*)
   FROM social_media_usage.user_activty
   GROUP BY Watch Reason
   LIMIT 1),
c as(
SELECT Platform, COUNT(*)
FROM social_media_usage.user_activty
WHERE Age_Group = (SELECT Age_Group FROM a) AND Watch_Reason = (SELECT
Watch_Reason FROM b)
group by 1
ORDER BY 2 DESC
limit 1)
SELECT a.Age_Group, b.Watch_Reason, c.Platform
FROM a,b,c;
```

Answer:

	Age_Group	Watch_Reason	Platform
•	45-54	Habit	Instagram

Data Cleaning:

```
UPDATE social_media_usage.user_activty
SET Profession = "Driver"
WHERE Profession = "driver";
```

Data Transformation

- Creating Age Groups Column

```
ALTER TABLE social_media_usage.user_activty
ADD Age_Group VARCHAR(10);
```

Creating Age Groups