Queries

→ **Query 1** : Find the 3 most influential(popular) users (based on Likes + Shares + Saves + Comments across all their posts)

Soln.

SELECT u.User_ID, u.Name,

    COALESCE(SUM(like_counts.total_likes), 0) +

    COALESCE(SUM(share_counts.total_shares), 0) +

    COALESCE(SUM(save_counts.total_saves), 0) +

    COALESCE(SUM(comment_counts.total_comments), 0) AS Total_Engagement

FROM User u

LEFT JOIN Posts p ON u.User_ID = p.User_ID

LEFT JOIN (

  SELECT Post_ID, COUNT(*) AS total_likes

  FROM Like

  GROUP BY Post_ID

) like_counts ON p.Post_ID = like_counts.Post_ID

LEFT JOIN (

  SELECT Post_ID, COUNT(*) AS total_shares

  FROM Share

  GROUP BY Post_ID

) share_counts ON p.Post_ID = share_counts.Post_ID

LEFT JOIN (

  SELECT Post_ID, COUNT(*) AS total_saves

  FROM Save

  GROUP BY Post_ID

) save_counts ON p.Post_ID = save_counts.Post_ID

LEFT JOIN (

   SELECT Post_ID, COUNT(*) AS total_comments

   FROM Comment

   GROUP BY Post_ID

) comment_counts ON p.Post_ID = comment_counts.Post_ID

GROUP BY u.User_ID, u.Name

ORDER BY Total_Engagement DESC

LIMIT 3;

→ **Query 2 : Users Who Only Commented but Never Liked, Shared, or Saved the post.**

Soln.

SELECT DISTINCT u.User_ID, u.Name

FROM User u

WHERE u.User_ID IN (SELECT DISTINCT User_ID FROM Comment)

  AND u.User_ID NOT IN (SELECT DISTINCT User_ID FROM Like)

  AND u.User_ID NOT IN (SELECT DISTINCT User_ID FROM Share)

  AND u.User_ID NOT IN (SELECT DISTINCT User_ID FROM Save);

→ **Query 3 : Top 5 Users Who Got Their Posts Reported the Most**

Soln.

SELECT u.User_ID, u.Name, COUNT(r.Report_ID) AS Total_Reports

FROM User u

JOIN Posts p ON u.User_ID = p.User_ID

JOIN Reports r ON p.Post_ID = r.Post_ID

GROUP BY u.User_ID, u.Name

ORDER BY Total_Reports DESC

LIMIT 5;