

### Question 01 :

Retrieve a list of users who meet at least one of these criteria:

1. Reputation greater than 8000
2. Created more than 15 posts

Display UserId, DisplayName, and Reputation.

Ensure that each user appears only once in the results.

### Question 02 :

Find users who satisfy BOTH of these conditions simultaneously:

1. Have reputation greater than 3000
2. Have earned at least 5 badges

Display UserId, DisplayName, and Reputation.

### Question 03 :

Identify posts that have a score greater than 20 but have never received any comments. Display PostId, Title, and Score.

## **Question 04 :**

Create a new permanent table called Posts\_Backup that stores all posts with a score greater than 10.

The new table should include: Id, Title, Score, ViewCount, CreationDate, OwnerUserId.

## **Question 05 :**

Create a new table called ActiveUsers containing users who meet the following criteria:

1. Reputation greater than 1000
2. Have created at least one post

The table should include: UserId, DisplayName, Reputation, Location, and PostCount (calculated).

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Create a new empty table called Comments\_Template that has the exact same structure as the Comments table but contains no data rows.

## **Question 07 :**

Create a summary table called PostEngagementSummary that combines data from Posts, Users, and Comments tables.

The table should include: PostId, Title, AuthorName, Score, ViewCount CommentCount (calculated), TotalCommentScore (calculated)

Include only posts that have received at least 3 comments.

## **Question 08 :**

Develop a reusable calculation that determines the age of a post in days based on its creation date.

Input: CreationDate (DATETIME)

Output: Age in days (INTEGER)

Test your solution by displaying posts with their calculated ages.

## **Question 09 :**

Develop a reusable calculation that assigns a badge level to users based on their reputation and post activity.

Inputs: Reputation (INT), PostCount (INT)

Output: Badge level (VARCHAR)

Logic:

'Gold' if reputation > 10000 AND posts > 50

'Silver' if reputation > 5000 AND posts > 20

'Bronze' if reputation > 1000 AND posts > 5

'None' otherwise

## **Question 10 :**

Develop a reusable query that retrieves posts created within a specified number of days from today.

Input: @DaysBack (INT) - number of days to look back

Output: Table with PostId, Title, Score, ViewCount, CreationDate

Test with different day ranges (e.g., 30 days, 90 days).

## **Question 11 :**

Develop a reusable query that finds top users from a specific location or all locations based on reputation threshold.

Inputs: @MinReputation (INT), @Location (VARCHAR)

Output: Table with UserId, DisplayName, Reputation, Location, CreationDate

If @Location is NULL, return users from all locations.

Test with different parameters.

## **Question 12 :**

Write a query to find the top 3 highest scoring posts for each PostTypeId.

Use a subquery or CTE with ROW\_NUMBER() and PARTITION BY.

Display PostTypeId, Title, Score, and the rank.

## **Question 13 :**

Write a query using a CTE to find all users whose reputation is above the average reputation. The CTE should calculate

1. the average reputation first.
2. Display DisplayName, Reputation, and the average reputation.

## **Question 14 :**

Write a query using a CTE to calculate the total number of posts and average score for each user. Then join with the Users table to display: DisplayName, Reputation, TotalPosts, and AvgScore. Only include users with more than 5 posts.

## **Question 15 :**

Write a query using multiple CTEs:

First CTE: Calculate post count per user

Second CTE: Calculate badge count per user

Then join both CTEs with Users table to show:

DisplayName, Reputation, PostCount, and BadgeCount.

Handle NULL values by replacing them with 0.

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## **Question 16 :**

Write a recursive CTE to generate a sequence of numbers from 1 to 20. Display the generated numbers.