**5th Answer :**

Code :

SELECT title,

length,

categoryName

FROM ( SELECT CASE

WHEN film\_category.category\_id = @currentCategory THEN

@currentRecord := @currentRecord + 1

ELSE

@currentRecord := 1 AND

@currentCategory := film\_category.category\_id

END AS recordNumber,

film.title AS title,

film.length AS length,

categoryName AS categoryName

FROM film

JOIN film\_category ON film.film\_id = film\_category.film\_id

JOIN ( SELECT film\_category.category\_id AS category\_id,

category.name AS categoryName,

AVG( film.length ) AS categoryAvgLength

FROM film

JOIN film\_category ON film.film\_id = film\_category.film\_id

JOIN category ON category.category\_id = film\_category.category\_id

GROUP BY film\_category.category\_id,

category.name

) AS categoryAvgLengthFinder ON film\_category.category\_id = categoryAvgLengthFinder.category\_id,

(

SELECT @currentCategory := 0 AS currentCategory

) AS currentValuesInitialiser

WHERE film.length > categoryAvgLength

ORDER BY film\_category.category\_id,

film.length

) AS allLarger

WHERE recordNumber <= 5;

Assumptions :

This statement starts by using the following subquery to form a "table" consisting of each category's unique identifier category\_id, the name of the category and the corresponding average Film length

This subquery's results are then joined to film and film\_catgory. As the subquery retrieves all the details from category that we will need for the rest of the statement, no JOIN with category is needed.

The resulting dataset is then cross-joined with SELECT @currentCategory := 0 AS currentCategoryto initialise the variable @currentCategory within the same statement. This does come at the cost of appending a field called currentCategory to the dataset generated above, so you may prefer to use the following code instead.

Once the JOIN's are performed (and @currentCategory is initialised), the resulting dataset is refined to just those records whose value of film.length' is greater than the corresponding average for that category. The refined dataset is then sorted (not grouped) by one of thecategory\_idfields (of which there will be two sharing the same value owing to the joining) and subsorted byfilm.length`.

When the fields are chosen, each record's value of category\_id is compared to the value of @currentCategory. If they do not match then @currentRecord is initialised to 1 and @currentCategory is updated to the new value of category\_id. If they do match, then @currentRecord is incremented. In either case, the value assigned to @currentRecord is returned to the SELECT statement into the field given the alias recordNumber. It is thus that we are able to prepend a record number to our refined dataset.

Then all that remains is to SELECT all the records from the refined dataset (sans record number) where the record number is less than or equal to 5

**6th Answer:**

SELECT film\_id as MovieNumber, COUNT(actor\_id) AS ActorCount

FROM film\_actor

GROUP BY film\_id

HAVING ActorCount > AVG(ActorCount);