**Tasks**. Most of the tasks contains 2 parts: a description and an image of how the result should look like. Please provide an SQL query for each of the following tasks:

1 Show all usernames in the next format

<https://gyazo.com/41b95749c9eb8f0dc9d59b8406207133>

**Ответ:**

SELECT CONCAT('First Name: ',FirstName,'; Last Name: ',LastName,'; Full Name:',FirstName,' ',LastName)

FROM [User];

2 Order videos by Views count and show videos and weren’t removed first

a. First should go videos with the highest views count that are not removed

b. Then videos with less views that are not removed

c. Then videos with the highest views count that are deleted

d. Then videos with the lowest views count that are deleted

<https://gyazo.com/ab8b9c75eaa4f97541f4b8f86cafa1f5>

**Ответ:**

SELECT \* FROM [Video] ORDER BY IsDeleted, Views DESC;

3 Find all deleted videos

**Ответ:**

# SELECT \* FROM [Video] WHERE IsDeleted=1;

# 4 Find all videos with 3 or more ‘likes’ and 0 ‘dislikes’ that are not deleted

**Ответ:**

# SELECT \* FROM [Video] WHERE Likes>=3 and Dislikes=0 and IsDeleted=0;

# 5 Find all users and their channels.

Find all users and their channels. If user doesn’t have channel, we still want to see the user in the results list. If the user has more than one channel, we want to see multiple rows for every channel. Order the results by channel name.

<https://gyazo.com/668c50055c935be57e93b6bbaa2ae94d>

**Ответ:**

SELECT FirstName, LastName, Title, Description

FROM [User] LEFT JOIN

Channel ON [User].Id = Channel.UserId ORDER BY Channel.Id

# 6 Find all users and show their videos.

Find all users and show their videos. Don’t show users that don’t have any videos in their channels. Order them by views count starting from he highest.

<https://gyazo.com/73e48220604b2a149d46002a7b78e4f1>

**Ответ:**

SELECT [User].FirstName, [User].LastName, Channel.Title, Video.Title, Video.Views

FROM [User] INNER JOIN

Channel ON [User].Id = Channel.UserId INNER JOIN

Video ON Channel.Id = Video.ChannelId

# ORDER BY Video.Views DESC

# 7 Calculate number of items inside all playlists in the system

<https://gyazo.com/34350040c556363076649bc93911f34a>

**Ответ:**

SELECT count (\*) FROM PlaylistItem

# 8 Calculate number of items inside of all playlists of user with name “Test Test”

<https://gyazo.com/28cadc6804d0bbd516d20fd6e83fc534>

**Ответ:**

SELECT count(\*) FROM [User] INNER JOIN

Playlist ON [User].Id = Playlist.UserId INNER JOIN

# PlaylistItem ON Playlist.Id = PlaylistItem.PlaylistId Where FirstName like 'Test' and LastName like 'Test'

# 9 Calculate count of videos for every channel

<https://gyazo.com/e33f5e77f765a0fc6b35749413ae01bc>

**Ответ:**

SELECT Channel.Title, count (\*)

FROM Channel INNER JOIN

# Video ON Channel.Id = Video.ChannelId GROUP BY Channel.Title

# 10 Calculate count of videos for every not deleted user and show users’ full name

<https://gyazo.com/ccbe8881bd7bbc3614683702d62dd62a>

**Ответ:**

SELECT CONCAT([User].FirstName,' ', [User].LastName), count(\*)

FROM [User] INNER JOIN

Channel ON [User].Id = Channel.UserId INNER JOIN

Video ON Channel.Id = Video.ChannelId

# GROUP BY CONCAT([User].FirstName,' ', [User].LastName) ORDER BY count(\*) DESC, CONCAT([User].FirstName,' ', [User].LastName) DESC

# 11 Calculate count of likes for every video in the system

<https://gyazo.com/3bd288a97379b98d829346ae198e1fdd>

Notes: [dbo].[Rating] is 1 means ‘like’

[dbo].[Rating] is 2 means ‘dislike’

We can not use Likes and Dislikes columns in [Video] table in this ticket for calculation

**Ответ:**

SELECT distinct Video.Title, SUM(COALESCE(rating,0)) AS Likes

FROM Video LEFT OUTER JOIN

Rating ON Video.Id = Rating.VideoId where rating=1 or rating is null

GROUP BY Video.Title

# 12 Calculate count of dislikes for every video in the system

<https://gyazo.com/ae85bb13a92fd19836937fc342a8136f>

Notes: [dbo].[Rating] is 1 means ‘like’

[dbo].[Rating] is 2 means ‘dislike’

We can not use Likes and Dislikes columns in [Video] table in this ticket for calculation

**Ответ:**

SELECT distinct Video.Title, SUM(COALESCE(floor(rating/2),0)) AS Dislikes

FROM Video LEFT OUTER JOIN

Rating ON Video.Id = Rating.VideoId

# GROUP BY Video.Title

# 13 Show users who have exactly one channel (no more, no less)

<https://gyazo.com/c3fdb30315e26961c4891f2d1d262e38>

**Ответ:**

SELECT CONCAT([User].FirstName, ' ', [User].LastName) AS [Full Name]

FROM [User] INNER JOIN

Channel ON [User].Id = Channel.UserId GROUP BY CONCAT([User].FirstName, ' ', [User].LastName) HAVING count(\*)=1

# 14 Calculate length of every comment in the system

<https://gyazo.com/4c39a3332dfa04995f502cf4c7d390e8>

**Ответ:**

SELECT Text, Len(Text) As SymbolCount

FROM Comment

# 15 Show only those comments which length is shorter than 35 symbols, show users and videos which they belong to and order them from longer to shorter

<https://gyazo.com/d2be62f6fd5bfb4ef21b42fc3bc44be2>

**Ответ:**

SELECT b.Text, CONCAT(b.FirstName,' ',b.LastName) AS [Full Name], b.Title, b.SymbolCount

FROM (SELECT Comment.Text, [User].FirstName, [User].LastName, Video.Title, Len(Comment.Text) AS SymbolCount

FROM Comment INNER JOIN

[User] ON Comment.UserId = [User].Id INNER JOIN

# Video ON Comment.VideoId = Video.Id) as b Where b.SymbolCount<35 ORDER BY b.SymbolCount DESC

# 16 For every row from Task #15 show how many likes every video has (query from Task #11)

<https://gyazo.com/42aa32b81a4203b2bd3af3dfc6dc0899>

**Ответ:**

SELECT b.Text, CONCAT(b.FirstName,' ',b.LastName) AS [Full Name], b.Title, c.Likes, b.SymbolCount

FROM (SELECT Comment.Text, [User].FirstName, [User].LastName, Video.Title, Len(Comment.Text) AS SymbolCount

FROM Comment INNER JOIN

[User] ON Comment.UserId = [User].Id INNER JOIN

Video ON Comment.VideoId = Video.Id) as b

INNER JOIN

(SELECT Video.Title, SUM(COALESCE(rating,0)) AS Likes

FROM Video LEFT OUTER JOIN

Rating ON Video.Id = Rating.VideoId where rating=1 or rating is null

GROUP BY Video.Title) As c ON b.Title = c.Title

Where b.SymbolCount<35 ORDER BY b.SymbolCount DESC

# 17 For query from Task #13, add the name of the channel to the results

<https://gyazo.com/e63cde99fd829f8811982e0a375cab7f>

**Ответ:**

SELECT a AS [Full Name], c.Title

FROM (SELECT CONCAT([User].FirstName, ' ', [User].LastName) AS a, count(\*) as b

FROM [User] INNER JOIN

Channel ON [User].Id = Channel.UserId GROUP BY CONCAT([User].FirstName, ' ', [User].LastName)) AS abc

INNER JOIN

(SELECT CONCAT([User].FirstName,' ',[User].LastName) AS Name, Channel.Title

FROM [User] INNER JOIN

Channel ON [User].Id = Channel.UserId) As c ON abc.a = c.Name

Where b=1

# 18 Show User Names, Video Titles and Channel Titles in the same query like on the screenshot. Also order the items by their ids

<https://gyazo.com/a49b04b353c01794d83b121a3ebac3b9>

**Ответ:**

SELECT Id, Title AS Name, 'Video' AS Type FROM Video

UNION

SELECT Id, CONCAT([User].FirstName, ' ', [User].LastName)AS Name, 'User' AS Type FROM [user]

UNION

SELECT Id, Title as Name, 'Channel' AS Type FROM Channel

ORDER BY Id, Name, Type