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| **Name** | : | Sathish Kumar Rajendiran |
| **Current Date** | : | 02/29/2020 |
| **Lab Number** | : | 07 |

**Part 1 – Exploratory Data Analysis**

* ***Display all users who have made VidCasts***

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* ***Users who have not made any VidCasts***

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* ***Include all Users irrespective of Number of VidCasts Uploaded***

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* ***High-level Descriptive statistics for vc\_VidCast***

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* ***Number of VidCasts by User***

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* ***Display Number of VidCasts by Count and Username***

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Description automatically generated**

* ***Our least prolific users***

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* ***Actual duration of Finished VidCasts between two dates***

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**Part 2 – Putting All Together**

* ***More descriptive statistics for VidCast results***

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* ***Lab07 - SQL Script***

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Title : Lab 07 - SQL Scripts

Author : Sathish Kumar Rajendiran

Course : IST659 M406

Term : February 2020

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----Part 1: Display Users who have made VidCasts

SELECT

USR.UserName

,USR.EmailAddress

,VidCast.vc\_VidCastID

FROM dbo.vc\_VidCast as VidCast

Join dbo.vc\_User as USR ON USR.vc\_UserID=VidCast.vc\_UserID

Order by USR.UserName

----Look for users who have not yet made any VidCasts

Select \* From dbo.vc\_User

Where vc\_UserID NOT IN (Select vc\_UserID from dbo.vc\_VidCast)

----Display all users including those with No VidCasts | Be sure to include all vc\_User records

SELECT

USR.UserName

,USR.EmailAddress

,VidCast.vc\_VidCastID

FROM dbo.vc\_VidCast as VidCast

RIGHT Join dbo.vc\_User as USR ON USR.vc\_UserID=VidCast.vc\_UserID

Order by USR.UserName

----High-level descriptive statisticss for vc\_VidCast

Select

Count(vc\_VidCastID) as NumberOfVidCasts

,Sum(ScheduleDurationMinutes) as TotalScheduledMinutes

,Min(ScheduleDurationMinutes) as MinScheduledMinutes

,Avg(ScheduleDurationMinutes) as AvgScheduledMinutes

,Max(ScheduleDurationMinutes) as MaxScheduledMinutes

From dbo.vc\_VidCast

----Aggregate CountOfVidCasts

SELECT

USR.UserName

, USR.EmailAddress

,count(VidCast.vc\_VidCastID) as CountofVidCasts

FROM dbo.vc\_VidCast as VidCast

RIGHT Join dbo.vc\_User as USR ON USR.vc\_UserID=VidCast.vc\_UserID

Group by

USR.UserName

,USR.EmailAddress

Order by USR.UserName

----Aggregate CountOfVidCasts and order by those with maximum VidCasts

SELECT

USR.UserName

,USR.EmailAddress

,count(VidCast.vc\_VidCastID) as CountofVidCasts

FROM dbo.vc\_VidCast as VidCast

RIGHT Join dbo.vc\_User as USR ON USR.vc\_UserID=VidCast.vc\_UserID

Group by

USR.UserName

,USR.EmailAddress

Order by CountofVidCasts desc,USR.UserName

----Display Users with <10 VidCasts | Our least prolific users

SELECT

USR.UserName

,USR.EmailAddress

,count(VidCast.vc\_VidCastID) as CountofVidCasts

FROM dbo.vc\_VidCast as VidCast

RIGHT Join dbo.vc\_User as USR ON USR.vc\_UserID=VidCast.vc\_UserID

Group by

USR.UserName

,USR.EmailAddress

Having count(VidCast.vc\_VidCastID) <10

Order by CountofVidCasts desc,USR.UserName

--Actual duration of Finished VidCasts between two dates

SELECT

USR.UserName

,USR.EmailAddress

,Sum(DateDiff(n,StartDatetime,EndDateTime)) as SumActualDurationMinutes

FROM dbo.vc\_VidCast as VidCast

Join dbo.vc\_User as USR ON USR.vc\_UserID=VidCast.vc\_UserID

Join dbo.vc\_Status as VStatus ON VStatus.vc\_StatusID=VidCast.vc\_StatusID

Where VStatus.StatusText = 'Finished'

Group by

USR.UserName

,USR.EmailAddress

Order by USR.UserName

----Part 2: More descriptive statistics for VidCast results

SELECT

USR.UserName

,USR.EmailAddress

,Sum(DateDiff(n,StartDatetime,EndDateTime)) as SumActualDurationMinutes

,Count(vc\_VidCastID) as CountOfVidCasts

,Min(DateDiff(n,StartDatetime,EndDateTime)) as MinActualDurationMinutes

,Avg(DateDiff(n,StartDatetime,EndDateTime)) as AvgActualDurationMinutes

,Max(DateDiff(n,StartDatetime,EndDateTime)) as MaxActualDurationMinutes

FROM dbo.vc\_VidCast as VidCast

Join dbo.vc\_User as USR ON USR.vc\_UserID=VidCast.vc\_UserID

Join dbo.vc\_Status as VStatus ON VStatus.vc\_StatusID=VidCast.vc\_StatusID

Where VStatus.StatusText = 'Finished' --and vc\_User.UserName='ecstatic'

Group by

USR.UserName

,USR.EmailAddress

Order by CountofVidCasts desc,USR.UserName