-- Part 1: Exploratory Data Analysis

SELECT vc\_User.UserName,

vc\_User.EmailAddress,

vc\_VidCast.vc\_VidCastID

FROM vc\_VidCast

JOIN vc\_User ON vc\_User.vc\_UserID = vc\_VidCast.vc\_UserID

ORDER BY vc\_User.UserName;

--Check Users who have not produced a video

SELECT \* FROM vc\_User

WHERE vc\_UserID NOT IN (SELECT vc\_UserID FROM vc\_VidCast);

-- Be sure to include all vc\_User records

SELECT vc\_User.UserName,

vc\_User.EmailAddress,

vc\_VidCast.vc\_VidCastID

FROM vc\_VidCast

RIGHT JOIN vc\_User ON vc\_User.vc\_UserID = vc\_VidCast.vc\_UserID

ORDER BY vc\_User.UserName;

--High-level doscriptive statistics for vc\_VidCast

SELECT COUNT(vc\_VidCastID) as NumberOfVidCasts,

SUM(ScheduleDurationMinutes) as TotalScheduleMinutes,

MIN(ScheduleDurationMinutes) as MinScheduleMinutes,

AVG(ScheduleDurationMinutes) as AvgScheduleMinutes,

MAX(ScheduleDurationMinutes) as MaxScheduleMinutes

FROM vc\_VidCast;

--Right join to account for all users on the site

SELECT vc\_User.UserName,

vc\_User.EmailAddress,

COUNT(vc\_VidCast.vc\_VidCastID) CountOfVidCasts

FROM vc\_VidCast

RIGHT JOIN vc\_User ON vc\_User.vc\_UserID = vc\_VidCast.vc\_UserID

GROUP BY vc\_User.UserName,

vc\_User.EmailAddress

ORDER BY CountOfVidCasts DESC, vc\_User.UserName;

--Our least prolific users

SELECT vc\_User.UserName,

vc\_User.EmailAddress,

COUNT(vc\_VidCast.vc\_VidCastID) AS CountOfVidCasts

FROM vc\_VidCast

RIGHT JOIN vc\_User ON vc\_User.vc\_UserID = vc\_VidCast.vc\_UserID

GROUP BY vc\_User.UserName,

vc\_User.EmailAddress

HAVING COUNT(vc\_VidCast.vc\_VidCastID) < 10

ORDER BY CountOfVidCasts DESC, vc\_User.UserName;

-- Difference between StartDateTime and EndDateTime

SELECT vc\_User.UserName,

vc\_User.EmailAddress,

SUM(DateDiff(n, StartDateTime, EndDateTime)) AS SumActualDurationMinutes

FROM vc\_VidCast

JOIN vc\_User ON vc\_User.vc\_UserID = vc\_VidCast.vc\_UserID

JOIN vc\_Status ON vc\_Status.vc\_StatusID = vc\_VidCast.vc\_StatusID

WHERE vc\_Status.StatusText = 'Finished'

GROUP BY vc\_User.UserName,

vc\_User.EmailAddress

ORDER BY vc\_User.UserName;

-- Part 2: Putting it all together

SELECT vc\_User.UserName,

vc\_User.EmailAddress,

SUM(DateDiff(n, StartDateTime, EndDateTime)) AS SumActualDurationMinutes,

COUNT(vc\_VidCast.vc\_VidCastID) AS CountOfVidCasts,

MIN(DateDiff(n, StartDateTime, EndDateTime)) AS MinActualDurationMinutes,

AVG(DateDiff(n, StartDateTime, EndDateTime)) AS AvgActualDurationMinutess,

MAX(DateDiff(n, StartDateTime, EndDateTime)) AS MaxActualDurationMinutes

FROM vc\_VidCast

JOIN vc\_User ON vc\_User.vc\_UserID = vc\_VidCast.vc\_UserID

JOIN vc\_Status ON vc\_Status.vc\_StatusID = vc\_VidCast.vc\_StatusID

WHERE vc\_Status.StatusText = 'Finished'

GROUP BY vc\_User.UserName,

vc\_User.EmailAddress

ORDER BY CountOfVidCasts DESC, vc\_User.UserName;