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Lab 7

Final SQL Query:

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

--Look for users who have not yet made any VidCasts
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 descriptive statistics 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 vc_VidCast

--GROUP BY Clause, Repea
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
ORDER BY vc_User.UserName

--Group By Error Amended Query
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 vc_User.UserName

--Amended previous query, Amended line 50 so users with highest count at top.
SELECT

```sql
        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) 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


--Number of min b/w StartDateTime and EndDateTime for all VidCasts with Finished Status
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: Adding descriptive stats to above query
SELECT

        vc_User.UserName

        , vc_User.EmailAddress

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

        , COUNT(vc_VidCastID) as CountOfVidCasts

        , MIN(ScheduleDurationMinutes) as MinActualMinutes

        , AVG(ScheduleDurationMinutes) as AvgActualMinutes

        , MAX(ScheduleDurationMinutes) as MaxActualMinutes
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 ;
```