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IST659_M406 Week7_Lab7

Lab 07 – Advanced Querying

Part 1

```
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
```

Results | Messages

	UserName	EmailAddress	vc_VidCastID
814	worthwhile	non.arcu@ac.net	378
815	worthwhile	non.arcu@ac.net	346
816	worthwhile	non.arcu@ac.net	498
817	worthwhile	non.arcu@ac.net	496
818	worthwhile	non.arcu@ac.net	588
819	worthwhile	non.arcu@ac.net	547
820	worthwhile	non.arcu@ac.net	141
821	worthwhile	non.arcu@ac.net	231
822	worthwhile	non.arcu@ac.net	284
823	worthwhile	non.arcu@ac.net	272
824	youthful	malesuada@Suspe...	289
825	youthful	malesuada@Suspe...	159
826	youthful	malesuada@Suspe...	109
827	youthful	malesuada@Suspe...	44
828	youthful	malesuada@Suspe...	550
829	youthful	malesuada@Suspe...	534
830	youthful	malesuada@Suspe...	502
831	youthful	malesuada@Suspe...	350
832	youthful	malesuada@Suspe...	364
833	youthful	malesuada@Suspe...	415
834	youthful	malesuada@Suspe...	607

834 rows

Query executed successfully.

```sql
SELECT * FROM vc_User
WHERE vc_UserId NOT IN (SELECT vc_UserID FROM vc_VidCast)
```

	vc_UserID	UserName	EmailAddress	UserDescription	WebSiteURL	UserRegisteredDate
1	27	prune	enim.sit.amet@aliquet.edu	NULL	NULL	2017-06-09 10:04:48.000
2	28	embarrass	Nam.ligula@atfringilla.co.uk	NULL	NULL	2018-01-15 05:16:48.000

```sql
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
```

	UserName	EmailAddress	vc_VidCastID
237	ecstatic	blandit.enim.conseq...	260
238	ecstatic	blandit.enim.conseq...	266
239	ecstatic	blandit.enim.conseq...	205
240	ecstatic	blandit.enim.conseq...	220
241	ecstatic	blandit.enim.conseq...	161
242	ecstatic	blandit.enim.conseq...	156
243	ecstatic	blandit.enim.conseq...	315
244	ecstatic	blandit.enim.conseq...	442
245	ecstatic	blandit.enim.conseq...	436
246	ecstatic	blandit.enim.conseq...	401
247	ecstatic	blandit.enim.conseq...	546
248	ecstatic	blandit.enim.conseq...	575
249	ecstatic	blandit.enim.conseq...	475
250	embarrass	Nam.ligula@atfringil...	NULL
251	ethanol	Donec.tempus@pe...	790
252	ethanol	Donec.tempus@pe...	465
253	ethanol	Donec.tempus@pe...	461
254	ethanol	Donec.tempus@pe...	457
255	ethanol	Donec.tempus@pe...	509
256	ethanol	Donec.tempus@pe...	375
257	ethanol	Donec.tempus@pe...	418
258	ethanol	Donec.tempus@pe...	334

Query executed successfully.

```sql
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
```

Results | **Messages**

	NumberofVidCasts	TotalScheduledMinutes	MinScheduledMinutes	AvgScheduledMinutes	MaxScheduledMinutes
1	834	43782	15	52	90

```sql
Select
        vc_User.UserName
        ,vc_User.EmailAddress
        ,COUNT(vc_VidCast.vc_VidCastID) CountofVidCast

FROM vc_VidCast

RIGHT JOIN vc_User ON vc_User.vc_UserID = vc_VidCast.vc_UserID

ORDER BY    vc_User.UserName
```

Messages

```
Msg 8120, Level 16, State 1, Line 2
Column 'vc_User.UserName' is invalid in the select list because it is not contained in either an aggregate function or the GROUP BY clause.
```

```sql
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
```

	UserName	EmailAddress	CountofVidCasts
48	prune	enim.sit.amet@aliquet.edu	0
49	przewalski	amet@Maurismolestie.org	17
50	RDwight	rdwight@nodomain.xyz	13
51	residue	lobortis@vitae.net	14
52	SaulHud...	slash@nodomain.xyz	11
53	sidesaddle	ac.urna.Ut@non.org	11
54	silly	accumsan@gravidasagittisDuis.net	17
55	sines	dui.nec.tempus@sitametrisus.co.uk	16
56	spilling	ullamcorper@Mauris.net	9
57	stars	massa@Etiam.co.uk	13
58	stay	et.magnis@nonmagnaNam.co.uk	7
59	symptoms	massa@et.co.uk	12
60	tardy	magna@ametconsectetueradipiscing.co.uk	13
61	TheDoctor	tomBaker@nodomain.xyz	14
62	these	parturient.montes@ipsum.ca	16
63	unfinished	faucibus@semutcursus.ca	14
64	untrue	Sed@musAeneaneget.ca	11
65	winter	accumsan@ascelerisque.net	6
66	wood	turpis.egestas.Fusce@massanonante.net	16
67	worthwhile	non.arcu@ac.net	10
68	youthful	malesuada@Suspendisse.co.uk	11

Results ▦ Messages

⊘ Query executed successfully.

```sql
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
```

Results | Messages

	UserName	EmailAddress	CountofVidCasts
1	ecstatic	blandit.enim.consequat@loremutaliquam.co.uk	22
2	principle	ac.urna@miac.com	19
3	canadian	Curabitur.dictum.Phasellus@eleifendnec.com	18
4	metacarpal	et.magna.Praesent@placeratauqueSed.org	18
5	przewalski	amet@Maurismolestie.org	17
6	silly	accumsan@gravidasagittisDuis.net	17
7	archives	ullamcorper.velit@interdumfeugiatSed.com	16
8	doughnut	ipsum.primis@Cumsociis.com	16
9	groggy	ornare.In.faucibus@egestas.ca	16
10	sines	dui.nec.tempus@sitametrisus.co.uk	16
11	these	parturient.montes@ipsum.ca	16
12	wood	turpis.egestas.Fusce@massanonante.net	16
13	bid	sed.turpis@hymenaeosMaurisut.co.uk	15
14	fervent	sollicitudin.adipiscing@egestasrhoncus.net	15
15	football	enim.diam@et.org	15
16	bittern	in.consequat@loremsemper.edu	14
17	chef	ultricies.sem@estMauris.edu	14
18	DnDGal	dnd@nodomain.xyz	14
19	filament	ante@eutellus.org	14
20	functions	ultrices.posuere.cubilia@magnaPraesent.com	14
21	kicking	felis.purus@cubiliaCuraeDonec.com	14
22	mallard	vel.lectus.Cum@veliteget.edu	14

⊘ Query executed successfully.

```sql
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
```

Results Messages

	UserName	EmailAddress	CountofVidCasts
1	accurate	In@facilisiseget.co.uk	9
2	darcy	urna.justo@orci.edu	9
3	gum	ut@pharetraQuisqueac.com	9
4	spilling	ullamcorper@Mauris.net	9
5	bicycle	Quisque.porttitor.eros@mi.net	8
6	dispatcher	quam@aptenttacitisociosqu.ca	8
7	hygienist	magna.Ut@necurnasuscipit.ca	7
8	stay	et.magnis@nonmagnaNam.co.uk	7
9	console	tristique@justoeuarcu.com	6
10	winter	accumsan@ascelerisque.net	6
11	embarrass	Nam.ligula@atfringilla.co.uk	0
12	prune	enim.sit.amet@aliquet.edu	0

```sql
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
```

Results | **Messages**

	UserName	EmailAddress	SumActualDurationMinutes
1	accurate	ln@facilisiseget.co.uk	1555
2	albite	nisi@vitaemauris.org	1971
3	architect	a.dui.Cras@mi.edu	1913
4	archives	ullamcorper.velit@interdumfeugiatSed.com	2374
5	bedtime	enim.Etiam@egetmollislectus.edu	1699
6	bewildered	Donec.porttitor.tellus@odioAliquamvulputate.edu	1944
7	bicycle	Quisque.porttitor.eros@mi.net	1152
8	bid	sed.turpis@hymenaeosMaurisut.co.uk	2792
9	bittern	in.consequat@loremsemper.edu	2303
10	camel	mauris@massanon.edu	1859
11	canadian	Curabitur.dictum.Phasellus@eleifendnec.com	1928
12	carpal	In.faucibus.Morbi@Mauris.ca	1641
13	chef	ultricies.sem@estMauris.edu	1902
14	console	tristique@justoeuarcu.com	1022
15	darcy	urna.justo@orci.edu	1482
16	dispatcher	quam@aptenttacitisociosqu.ca	1368
17	DnDGal	dnd@nodomain.xyz	2362
18	doughnut	ipsum.primis@Cumsociis.com	1830
19	ecozone	placerat@netusetmalesuada.net	2017
20	ecstatic	blandit.enim.consequat@loremutaliquam.co.uk	2682
21	ethanol	Donec.tempus@penatibusetmagnis.co.uk	1859
22	fervent	sollicitudin.adipiscing@egestasrhoncus.net	2031

✔ Query executed successfully.

Part 2

Select
      vc_User.UserName
      ,vc_User.EmailAddress
      ,SUM(Datediff(n, StartDateTime, EndDateTime)) AS SumActDuMin
      ,COUNT(Datediff(n, StartDateTime, EndDateTime)) AS CountofVidCasts
      , Min(Datediff(n, StartDateTime, EndDateTime)) AS MinSchedMin
      , AVG(Datediff(n, StartDateTime, EndDateTime)) AS AvgSchedMin
      , MAX(Datediff(n, StartDateTime, EndDateTime)) AS MaxSchedMin

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

	UserName	EmailAddress	SumActDuMin	CountofVidCasts	MinSchedMin	AvgSchedMin	MaxSchedMin
1	ecstatic	blandit.enim.consequat@loremutaliquam.co.uk	2682	22	29	121	231
2	principle	ac.urna@miac.com	3413	19	29	179	274
3	canadian	Curabitur.dictum.Phasellus@eleifendnec.com	1928	18	14	107	288
4	metacarpal	et.magna.Praesent@placerataugueSed.org	3053	18	29	169	274
5	silly	accumsan@gravidasagittisDuis.net	2851	17	15	167	288
6	groggy	ornare.ln.faucibus@egestas.ca	2464	16	14	154	260
7	przewalski	amet@Maurismolestie.org	2664	16	14	166	288
8	sines	dui.nec.tempus@sitametrisus.co.uk	2316	16	14	144	288
9	archives	ullamcorper.velit@interdumfeugiatSed.com	2374	15	14	158	259
10	doughnut	ipsum.primis@Cumsociis.com	1830	15	29	122	216
11	fervent	sollicitudin.adipiscing@egestasrhoncus.net	2031	15	15	135	260
12	these	parturient.montes@ipsum.ca	2101	15	14	140	288
13	bid	sed.turpis@hymenaeosMaurisut.co.uk	2792	14	58	199	288
14	bittern	in.consequat@loremsemper.edu	2303	14	43	164	288
15	chef	ultricies.sem@estMauris.edu	1902	14	29	135	259
16	DnDGal	dnd@nodomain.xyz	2362	14	43	168	288
17	filament	ante@eutellus.org	1842	14	14	131	231
18	football	enim.diam@et.org	1871	14	43	133	244
19	functions	ultrices.posuere.cubilia@magnaPraesent.com	2248	14	44	160	288
20	kicking	felis.purus@cubiliaCuraeDonec.com	2128	14	14	152	273
21	TheDoctor	tomBaker@nodomain.xyz	1886	14	29	134	288
22	wood	turpis.egestas.Fusce@massanonante.net	2292	14	72	163	288

⊘ Query executed successfully.   ist-s-students.syr.edu (12....