

CS130 LAB 4:

Q1: select downloads from cs130lab4 WHERE (downloads BETWEEN '2017-01-21 00:00:00' AND '2017-01-21 23:59:59')

The screenshot shows the phpPgAdmin interface. On the left, under 'Query Results', there is a table with 5 rows of data from the 'downloads' table, all dated '2017-01-21'. The main panel shows the SQL query: `select downloads from cs130lab4 WHERE (downloads BETWEEN '2017-01-21 00:00:00' AND '2017-01-21 23:59:59')`. The server is 'vgd21-db' and the database is 'cs130'.

downloads
2017-01-21 01:45:59
2017-01-21 17:48:57
2017-01-21 07:28:49
2017-01-21 21:59:28
2017-01-21 22:36:12

5 row(s)

Q2: select downloads from cs130lab4 WHERE (downloads BETWEEN '2016-12-17 00:00:00' AND '2016-12-17 23:59:59')

The screenshot shows the phpPgAdmin interface. On the left, under 'Query Results', there is a table with 9 rows of data from the 'downloads' table, all dated '2016-12-13'. The main panel shows the SQL query: `select downloads from cs130lab4 WHERE (downloads BETWEEN '2016-12-13 00:00:00' AND '2016-12-13 23:59:59')`. The server is 'vgd21-db' and the database is 'cs130'. The status bar indicates 'Total runtime: 1.510 ms' and 'SQL executed'.

downloads
2016-12-13 00:40:55
2016-12-13 00:37:24
2016-12-13 05:11:47
2016-12-13 08:03:12
2016-12-13 17:41:38
2016-12-13 19:50:19
2016-12-13 22:52:29
2016-12-13 01:57:41
2016-12-13 05:05:05

9 row(s)
Total runtime: 1.510 ms
SQL executed.
Edit SQL | Download

Q3: select user_agent from cs130lab4 WHERE user_agent LIKE '%Ubuntu%Linux%Firefox%'

The screenshot shows the phpPgAdmin interface. On the left, under 'Query Results', there is a table with 87 rows of data from the 'user_agent' table. The main panel shows the SQL query: `select user_agent from cs130lab4 WHERE user_agent LIKE '%Ubuntu%Linux%Firefox%'`. The server is 'vgd21-db' and the database is 'cs130'.

user_agent
Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:24.0) Gecko/20100101 Firefox/24.0
Mozilla/5.0 (X11; Ubuntu; Linux i686; rv:14.0) Gecko/20100101 Firefox/14.0.1
Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:17.0) Gecko/20100101 Firefox/17.0.6
Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:17.0) Gecko/20100101 Firefox/17.0.6
Mozilla/5.0 (X11; Ubuntu; Linux i686; rv:14.0) Gecko/20100101 Firefox/14.0.1
Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:14.0) Gecko/20100101 Firefox/14.0.1
Mozilla/5.0 (X11; Ubuntu; Linux i686; rv:14.0) Gecko/20100101 Firefox/14.0.1
Mozilla/5.0 (X11; Ubuntu; Linux armv7l; rv:17.0) Gecko/20100101 Firefox/17.0
Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:24.0) Gecko/20100101 Firefox/24.0
Mozilla/5.0 (X11; Ubuntu; Linux i686; rv:15.0) Gecko/20100101 Firefox/15.0.1
Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:24.0) Gecko/20100101 Firefox/24.0
Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:21.0) Gecko/20130331 Firefox/21.0
Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:21.0) Gecko/20100101 Firefox/21.0
Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:17.0) Gecko/20100101 Firefox/17.0.6
Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:24.0) Gecko/20100101 Firefox/24.0
Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:21.0) Gecko/20130331 Firefox/21.0
Mozilla/5.0 (X11; Ubuntu; Linux i686; rv:14.0) Gecko/20100101 Firefox/14.0.1
Mozilla/5.0 (X11; Ubuntu; Linux armv7l; rv:17.0) Gecko/20100101 Firefox/17.0
Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:24.0) Gecko/20100101 Firefox/24.0
Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:24.0) Gecko/20100101 Firefox/24.0
Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:21.0) Gecko/20130331 Firefox/21.0

87 row(s)

Q4: select user_agent from cs130lab4 WHERE user_agent ~* '.*AppleWebKit/\d{1,}\.\d{1,}\.\d{1,}.\$'

The screenshot shows the phpPgAdmin interface with the following details:

- Server:** vgd21-db (127.0.0.1:5432:allow)
- Database:** cs130
- Schema search path:** public,u210148
- Query:**

```
select user_agent from cs130lab4 WHERE user_agent ~* '.*AppleWebKit/\d{1,}\.\d{1,}\.\d{1,}.$'
```
- Results:** A list of user agents, including various Mozilla and AppleWebKit versions, with a total of 784 rows.

Q5: select downloads,user_agent from cs130lab4 WHERE (downloads BETWEEN '2016-01-01 00:00:00' AND '2016-12-31 23:59:59') AND (EXTRACT(DOW FROM downloads) = 0)

AND user_agent SIMILAR TO 'Googlebot/2.1'

The screenshot shows the phpPgAdmin interface with the following details:

- Server:** vgd21-db (127.0.0.1:5432:allow)
- Database:** cs130
- Schema search path:** public,u210148
- Query:**

```
select downloads,user_agent from cs130lab4 WHERE (downloads BETWEEN '2016-01-01 00:00:00' AND '2016-12-31 23:59:59') AND (EXTRACT(DOW FROM downloads) = 0) AND user_agent SIMILAR TO 'Googlebot/2.1'
```
- Results:** A table with two columns: downloads and user_agent. The results show Googlebot/2.1 entries with timestamps, totaling 4 rows.

Q6: select * from cs130lab4 WHERE filename ~* '^([a,e,i,o,u])' AND filename ~* '[a,e,i,o,u].mpeg\$'

The screenshot shows the phpPgAdmin interface with the following details:

- Server:** vgd21-db (127.0.0.1:5432:allow)
- Database:** cs130
- Schema search path:** public,u210148
- Query:**

```
select * from cs130lab4 WHERE filename ~* '^([a,e,i,o,u])' AND filename ~* '[a,e,i,o,u].mpeg$'
```
- Results:** A list of filenames, including -3170 ORCI EGET ORCI.MPEG, -2670 EU MI NULLA.MPEG, etc., totaling 38 rows.

Q7: select filename from cs130lab4 WHERE NOT filename ~* '.*[a,e,i,o,u].*'

The screenshot shows the phpPgAdmin interface with the following details:

- Server:** vgd21-db (127.0.0.1:5432:allow)
- Database:** cs130
- Schema search path:** public,u210148
- Query:**

```
select filename from cs130lab4 WHERE NOT filename ~* '.*[a,e,i,o,u].*'
```
- Results:** A list of filenames, including btf.qt, Gdr.mp3, TTRP.MP3, etc., totaling 7 rows.

Q8: select appname,filename from cs130lab4 WHERE filename ~* '.*.mp3\$' AND (char_length(appname) % 2 = 0) AND (char_length(filename) % 2 = 0)

Flowdesk	vitae quam suspendisse.mp3
Greenlam	malesuada in imperdiet.mp3
Wrapsafe	curabitur gravida nisi.mp3
Domainer	pede.mp3
Latlux	sit amet sem.mp3
Tres-Zap	eu.mp3
Vagram	cras pellentesque volutpat.mp3
Lotlux	pede.mp3
Greenlam	nibh.mp3
Kanlam	platea.mp3
Biodex	nibh in quis.mp3
Bytecard	pellentesque quisque.mp3
Y-find	enim lorem ipsum.mp3
Sub-Ex	cubilia curae mauris.mp3
Kanlam	lobortis sapien sapien.mp3
Temp	cursus.mp3
Aerified	donec ut dolor.mp3

612 row(s)

phpPgAdmin - SQL - Google Chrome

webcourse.cs.nuim.ie/phpPgAdmin/sqledit.php?subject=table&server=127.0.0.1%3A5432%3Aallow&da...

SQL Find

Server?: vgd21-db (127.0.0.1:5432:allow) Database?: cs130

Schema search path?: public,u210148

```
select appname,filename from cs130lab4 WHERE filename ~* '.*.mp3$' AND (char_length(appname) % 2 = 0) AND (char_length(filename) % 2 = 0)
```

Q9: select appname from cs130lab4 WHERE appname ~* '^(a|e|i|o|u|A|E|I|O|U)*\$'

appname
UAE
IOU
auaue
uoae
aaooaaaao
Ael
eieioooooo
eieio
ooooaaaaa

9 row(s)

Total runtime: 3.074 ms

SQL executed.

phpPgAdmin - SQL - Google Chrome

webcourse.cs.nuim.ie/phpPgAdmin/sqledit.php?subject=table&server=127.0.0.1%3A5432%3Aallow&da...

SQL Find

Server?: vgd21-db (127.0.0.1:5432:allow) Database?: cs130

Schema search path?: public,u210148

```
select appname from cs130lab4 WHERE appname ~* '^(a|e|i|o|u|A|E|I|O|U)*$'
```

Q10:

select * from cs130lab4 WHERE NOT date_part('year', downloads) = 2016 AND date_part('month', downloads) + date_part('day', downloads) + date_part('hour', downloads) + date_part('minute', downloads) + date_part('second', downloads) = 42

downloadid	filename
-3661	curae.mpeg
-1761	viverra diam vitae.mp3
-1712	magna.mp3
-1484	rutrum.mpeg
-1349	convallis dui conseq
-288	erat vestibulum sed.n
-276	massa id lobortis.mp3
-1840	CUBILIA CURAE.MP3
1696	vel lectus.mp3
1837	vitae quam.avi

10 row(s)

phpPgAdmin - SQL - Google Chrome

webcourse.cs.nuim.ie/phpPgAdmin/sqledit.php?subject=table&server=127.0.0.1%3A5432%3Aallow&da...

SQL Find

Server?: vgd21-db (127.0.0.1:5432:allow) Database?: cs130

Schema search path?: public,u210148

```
select * from cs130lab4 WHERE NOT date_part('year', downloads) = 2016 AND date_part('month', downloads) + date_part('day', downloads) + date_part('hour', downloads) + date_part('minute', downloads) + date_part('second', downloads) = 42
```

Q11:

```
select * from cs130lab4 WHERE (filesize >= 400) AND
date_part('month',downloadts) IN (2,3,5,7,11) AND
date_part('day',downloadts) IN (2,3,5,7,11,13,17,19,23,29,31) AND
date_part('hour', downloadts) IN (2,3,5,7,11,13,17,19,23)
```

819	quam a.avi
1063	in hac habitasse.avi
1071	hendrerit.avi
1113	et.avi
1178	nunc commodo plac
1209	pede libero quis.mp
1304	sapien.mp3
1315	nisi nunc rhoncus.m
1324	enim in tempor.avi
1392	sit amet.avi
1690	lobortis sapien sapi

55 row(s)

Server?: vgd21-db (127.0.0.1:5432:allow) ▼
Schema search path?: public,u210148

```
select * from cs130lab4 WHERE (filesize >= 400) AND
date_part('month',downloadts) IN (2,3,5,7,11) AND
date_part('day',downloadts) IN (2,3,5,7,11,13,17,19,23,29,31) AND
date_part('hour', downloadts) IN (2,3,5,7,11,13,17,19,23)
```

Q12:

```
select * from cs130lab4 WHERE filesize >= 100 AND LOG(LENGTH(apnpame)) =
LOG(LENGTH(ip_address))
```

-1790	dictumst maecenas ut.mp3
-1078	rutrum rutrum.mp3
-678	lacinia eget tincidunt.av
-324	suspendisse.mp3
-103	nulla ac enim.avi
-72	amet erat.avi
780	vestibulum sed.mpeg
-3025	LOBORTIS VEL DAPIB
832	at turpis.avi
1031	risus dapibus augue.av
1849	rutrum ac.avi
1967	suspendisse potenti nu

18 row(s)

Total runtime: 3.557 ms

SQL executed.

Server?: vgd21-db (127.0.0.1:5432:allow) ▼
Schema search path?: public,u210148

```
select * from cs130lab4 WHERE filesize >= 100 AND
LOG(LENGTH(apnpame)) = LOG(LENGTH(ip_address))
```