

# PostgreSQL commands Assignment

1.

```
EFS_DB=# select modulecode,duration from modules where duration < 6;
 modulecode | duration 
-----+-----
 JAV-1      |        3
 JAV-3      |        3
 JAV-6      |        4
 JAV-7      |        3
 WEB-1      |        4
(5 rows)
```

2.

```
EFS_DB=# select batchcode,trainerid,coursecode,startdate,capacity,batchstrength from batches where trainerid = (select trainerid from trainers where trainername = 'KRISHNAN');
 batchcode | trainerid | coursecode | startdate | capacity | batchstrength 
-----+-----+-----+-----+-----+-----
      3003 |        703 |         303 | 2012-01-02 |        10 |           10
      3005 |        703 |         300 | 2011-01-02 |         5 |            5
      3009 |        703 |         202 | 2012-07-09 |        10 |            5
(3 rows)
```

3.

```
EFS_DB=# select modulename from modules where modulecode in (select modulecode from courseandmodules where coursecode=100);
 modulename 
-----
 OOAD
 CORE JAVA
 JUNIT
(3 rows)
```

4.

```
EFS_DB=# select modulename,coursecode from modules inner join courseandmodules on (modules.modulecode=courseandmodules.modulecode) where courseandmodules.coursecode=100;
 modulename | coursecode 
-----+-----
 OOAD       |         100
 CORE JAVA  |         100
 JUNIT      |         100
(3 rows)
```

5.

```
EFS_DB=# select count(modulename) as NumberofModules from modules inner join courseandmodules on (modules.modulecode=courseandmodules.modulecode) where courseandmodules.coursecode=100;
 numberofmodules 
-----
                3
(1 row)
```

6.

```
EFS_DB=# select coursecode,count(modulename) as NumberofModules from modules inner join courseandmodules on (modules.modulecode=courseandmodules.modulecode) group by coursecode;
 coursecode | numberofmodules 
-----+-----
        101 |                3
        200 |                1
        202 |                2
        201 |                2
        100 |                3
        203 |                4
(6 rows)
```

7.

```
[EFS_DB=# select title,fees from courses where fees = (select max(fees) from courses);
      title      | fees
-----+-----
Oracle DBA      | 34500
(1 row)
```

8.

```
[EFS_DB=# select studentid,studentname,batchcode,place,phone from students where batchcode=3001;
 studentid | studentname | batchcode | place  | phone
-----+-----+-----+-----+-----
      1001 | SANKAR      |      3001 | CHENNAI | 9373737374
      1002 | UMA         |      3001 | CHENNAI | 9373737374
      1007 | MAHAL       |      3001 | CHENNAI | 9078737373
      1011 | KUMARAN     |      3001 | CHENNAI | 9393737377
      1020 | SANGEETHA   |      3001 | MADURAI | 9373737374
      1013 | SAI         |      3001 | CHENNAI | 9373737374
(6 rows)
```

9.

```
[EFS_DB=# select studentid,studentname,batchcode,place,phone from students where place='CHENNAI';
 studentid | studentname | batchcode | place  | phone
-----+-----+-----+-----+-----
      1001 | SANKAR      |      3001 | CHENNAI | 9373737374
      1002 | UMA         |      3001 | CHENNAI | 9373737374
      1003 | BANU        |      3002 | CHENNAI | 9373737364
      1006 | SOMU        |      3003 | CHENNAI | 9143737374
      1007 | MAHAL       |      3001 | CHENNAI | 9078737373
      1008 | AMIR        |      3003 | CHENNAI | 8373737374
      1009 | VINOTH      |      3004 | CHENNAI | 9973737370
      1011 | KUMARAN     |      3001 | CHENNAI | 9393737377
      1012 | AMIR        |      3003 | CHENNAI | 9370737374
      1014 | JOHN        |      3005 | CHENNAI | 9070737374
      1015 | JAMMAL      |      3005 | CHENNAI | 9670737373
      1016 | MOHAMED     |      3004 | CHENNAI | 9373737372
      1018 | BANISH      |      3003 | CHENNAI | 9373737374
      1019 | DAN         |      3002 | CHENNAI | 9373737374
      1013 | SAI         |      3001 | CHENNAI | 9373737374
      1001 | SANKAR      |      3004 | CHENNAI | 9073037376
(16 rows)
```

10.

```
[EFS_DB=# select count(modulecode) as Lessthansixdays from modules where duration < 6;
      Lessthansixdays
-----
                5
(1 row)
```

11.

```
[EFS_DB=# select batchcode,title,startdate from batches inner join courses on (batches.coursecode = courses.coursecode) where extract(month from startdate)=5 and extract(year from startdate)=2012;
 batchcode | title      | startdate
-----+-----+-----
      3010 | Oracle DBA | 2012-05-06
(1 row)
```

12.

```
EFS_DB=# select * from courses where coursecode not in (select coursecode from batches where extract(month
from startdate)= 1 and extract(year from startdate)=2012);
 coursecode |          title          | fees
-----+-----+-----
      101 | Certified Java Web Developer | 12500
      200 | Oracle Sql Expert          |  6500
      201 | Oracle Developer           | 12000
      202 | Oracle DBA                  | 34500
      203 | Oracle Data Ware Housing    | 24500
      300 | DotNet 4.0 using C Sharp Certification |  8000
      301 | Asp .net certification c#    | 12000
      302 | Microsoft Developer         | 30000
(8 rows)
```

13.

```
EFS_DB=# select modulename from modules where modulecode in (select modulecode from courseandmodules where
coursecode in (select coursecode from courses where title='Oracle DBA'));
 modulename
-----
 DBA
 PERFORMANCE TUNING
(2 rows)
```

14.

```
EFS_DB=# select * from students where batchcode in (select batchcode from batches where extract(year from startdate
)=2012 and place='CHENNAI');
 studentid | studentname | batchcode | place | phone
-----+-----+-----+-----+-----
      1001 | SANKAR      |      3001 | CHENNAI | 9373737374
      1002 | UMA         |      3001 | CHENNAI | 9373737374
      1006 | SOMU        |      3003 | CHENNAI | 9143737374
      1007 | MAHAL       |      3001 | CHENNAI | 9078737373
      1008 | AMIR        |      3003 | CHENNAI | 8373737374
      1011 | KUMARAN     |      3001 | CHENNAI | 9393737377
      1012 | AMIR        |      3003 | CHENNAI | 9370737374
      1018 | BANISH      |      3003 | CHENNAI | 9373737374
      1013 | SAI         |      3001 | CHENNAI | 9373737374
(9 rows)
```

15.

```
EFS_DB=# select studentid,studentname from students where batchcode in (select batchcode from batches where
coursecode=200);
 studentid | studentname
-----+-----
      1003 | BANU
      1004 | BALAN
      1005 | HAMEED
      1019 | DAN
(4 rows)
```