```
Beatrice Piras - s259888
1
 3
     Homework 2
4
 5
 6
     EX 1
 7
8
     a )
9
10
     SELECT Name, Surname, Datetour, count(GTCO.tourtypecode), sum(Duration)
            FROM type of tour tot, GUIDED TOUR CARRIED OUT GTCO, tour guide tg
11
12
            WHERE GTCO. TourTypeCode=tot.tourtypecode
                 AND GTCO.guidecode=tg.guidecode
13
14
                 AND GTCO.guidecode NOT IN ( SELECT guidecode
15
                                           FROM GUIDED TOUR CARRIED OUT GTCO2, groupp q
16
                                           WHERE GTCO2.groupcode=g.groupcode
17
                                           AND lang='fr')
18
             Group by Name, Surname, Datetour;
19
2.0
21
22
    h)
23
         SELECT Monument, sum (NumberOParticipants)
24
         FROM type of tour tot, GUIDED TOUR CARRIED OUT gtco, groupp g
25
         WHERE gtco.groupcode=g.groupcode
26
             AND gtco.tourtypecode=tot.tourtypecode
27
             AND Monument IN ( SELECT DISTINCT Monument
                                  FROM GUIDED TOUR CARRIED OUT gtco2, type_of_tour tot2
28
29
                                  WHERE gtco2.tourtypecode=tot2.tourtypecode
30
                                  GROUP BY Monument
31
                                  HAVING count(gtco2.tourtypecode)>=10)
32
         GROUP BY Monument
33
         ORDER BY sum (Number OParticipants) DESC;
34
35
36
37
38
    EX 2
39
     /*For the role of the primary keys in experiment,
40
     I assumed each student could only do one experiment per day
41
     with the same device in the same laboratory, hence i used
42
     'date' to count*/
43
44
     a)
4.5
46
     SELECT DeviceName, LabName, Name, count (Date)
47
     FROM Device d, Laboratory 1, Experiment e
     WHERE l.LabId=d.LabId
48
     AND d.DeviceId=e.DeviceId
49
50
     AND s.StudentId=e.StudentId
51
    AND d.DeviceId in (SELECT DeviceId
52
                          FROM Experiment
53
                          Group by DeviceId
54
                          Having count(*)>=10)
55
     Group by DeviceName, LabName, Name
56
57
58
59
     b)
60
61
     SELECT LAbID, LabName, Date
62
     FROM Device d, Laboratory 1, Experiment e
     WHERE l.LabId=d.LabId
63
64
    AND d.DeviceId=e.DeviceId
65
     AND d.LabId in ( SELECT LabId
66
                     FROM Student s2, Device d2,
                                                    Experiment e2
67
                     WHERE d.DeviceId=e.DeviceId
68
                     AND s.StudentId=e.StudentId
69
                     AND DegreeCourse='Computer Engineering')
70
     AND Category='Electronics'
71
     AND MONTH (Date) = 6
     AND YEAR (Date) = 2019;
```

73

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74
 75
 76
 77
      EX 3
 78
 79
      a)
 80
 81
      SELECT CampName, City, s.ActivityCode, count(SSN)
      FROM Summer Camp sc, Activity A1, SUBSCRIPTION TO ACTIVITY IN SUMMER CAMP s
 82
 83
      WHERE sc.campcode=s.campcode
 84
          AND Al.activitycode=s.activitycode
                             (select CampCode
 85
          AND s.campcode in
 86
                               FROM SUBSCRIPTION TO ACTIVITY IN SUMMER CAMP s2 , Activity a
 87
                               WHERE s2.activitycode=a.activitycode
 88
                               group by CampCode
                              having count( distinct SSN)>=15 and count( distinct
 89
                              category)>=3)
 90
      Group by CampName, City, s.ActivityCode;
 91
 92
 93
 94
 95
      b)
 96
 97
      SELECT t.Name, t.Surname, t.Birthdate, s.campcode, sc.CampName
 98
      FROM Teenager t, SUBSCRIPTION TO ACTIVITY IN SUMMER CAMP s, Summer camp
 99
      WHERE t.SSN=s.SSN
100
      AND s.CampCode=sc.CampCode
101
      AND s.SSN in (SELECT SSN
102
                  FROM SUBSCRIPTION TO ACTIVITY IN SUMMER CAMP s2
103
                  GROUP BY s2.SSN
104
                  HAVING count(distinct s2.Campcode)>5)
105
      AND t.Birthdate<'01-GEN-2005'
106
      Group by t.Name, t.Surname, t.Birthdate, s.campcode, sc.CampName
107
      Having count(distinct s.ActivityCode) = (Select count(distinct s3.Activitycode )
108
                                                   FROM
                                                   SUBSCRIPTION TO ACTIVITY IN SUMMER CAMP s3
109
                                                   Where s3.Campcode=s.CampCode);
110
```