Introduction to Database Systems 2020/2021, Test 1 (SQL SELECT), Variant: A

Duration: 70min

Maximal number of points/minimal number of points: **40/20**

Only complete and correct solution will be evaluated by non-zero points.

Tasks

1. Find all persons who never reported more than one recorded event (attribute is_recorded is equal to 1) in one year. In other words, there do not exist a year where a person reports more than one recorded event.

   (15 points)

2. Find ID of persons that have more than one hardworking subordinate (subordinate has `bossID` equal to his `pID`). A hardworking subordinate is a person who reported a "planed maintenance"event in 2017.

   (13 points)

3. For each person from Japan (attribute `mother_language`) count the following values:

   - Summary of event duration reported by a person on a device S3-8.
   - The number of "planed maintenance"events (attribute `event_description`) reported by a person.

   (12 points)

Note: Use a `year(startDate)` function in order to retrieve the event year

Introduction to Database Systems 2020/2021, Test 1 (SQL SELECT), Variant: B

Duration: 70min

Maximal number of points/minimal number of points: **40/20**

Only complete and correct solution will be evaluated by non-zero points.

Tasks

1. Find all persons who never reported more than one recorded event (attribute is_recorded is equal to 1) in one year. In other words, there do not exist a year where a person reports more than one recorded event.

   (15 points)

2. Find ID of persons that have more than one hardworking subordinate (subordinate has `bossID` equal to his `pID`). A hardworking subordinate is a person who reported a "planed maintenance"event in 2017.

   (13 points)

3. For each person from Japan (attribute `mother_language`) count the following values:

   - Summary of event duration reported by a person on a device S3-8.
   - The number of "planed maintenance"events (attribute `event_description`) reported by a person.

   (12 points)

Note: Use a `year(startDate)` function in order to retrieve the event year