

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 a nationality (attribute `person.mother_language`) for each device, where persons having this nationality reported the highest number of events on the device.
(15 points)
2. Find all persons having at least one subordinate person and compute the following informations:
 - The number of events reported by the person in 2017.
 - The number of events reported by the person on the H1 device.
(13 points)
3. Find persons without a subordinate person
(12 points)

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 a nationality (attribute `person.mother_language`) for each device, where persons having this nationality reported the highest number of events on the device.
(15 points)
2. Find all persons having at least one subordinate person and compute the following informations:
 - The number of events that are longer than 60 minutes and reported by the person.
 - The number of events of type 'planned maintenance' reported by the person.
(13 points)
3. Find persons without a subordinate person
(12 points)