Solution Excercise SQL

- *Title of all lectures the student Schopenhauer attends.*

Select Title
From Lectures l, attend a, Students s
Where l.LectNr = a.LectNr **and** a.StudNr = s.StudNr **and**
      s.Name = 'Schopenhauer'

- *Average Grade of the student Carnap.*

Select avg(Grade)
From Students s, test t
Where s.StudNr = t.StudNr **and** s.Name = 'Carnap

- *Name of all profesors who give at least 2 lectures.*

Select p.Name
From Professors p, Lectures l
Where p.PersNr = l.Given_by
Group By p.Name
Having Count(*) > 1

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Solution Excercise SQL (cont.)

SELECT Persnr, Name, COUNT(LectureNr) AS
                    NumberOfLectures
FROM Professors LEFT OUTER JOIN Lectures
                    ON Persnr = Given_by
WHERE Persnr = 2127 OR Persnr = 2137
GROUP BY Persnr, Name
ORDER BY NumberOfLectures DESC
Result:

Persnr   Name   NumberOfLectures
2137   Kant   2
2127   Kopernikus   0

COUNT(*)??

Quiz

Table Airplane:

Producer	Type	NumberSeats
Boeing	B747-400	550
Boeing	B737-300	380
Airbus	A340-600	380
Airbus	A320-200	179
Airbus	A380	NULL

Every producer together with its type of airplane with the most seats

Result:

Producer	Type	SeatsMax
Boeing	B747-400	550
Airbus	A340-600	380

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Quiz: Solution

with GroupProducer (Producer, SeatsMax)
as
  (**select** Producer, **max** (NumberSeats)
   from Airplane
   group by Producer)

select A.Producer, Type, SeatsMax
from Airplane A, GroupProducer G
where A.Producer = G.Producer **and**
      A.Seats = G.SeatsMax

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