Training Database of the Institute of Digital and Autonomous Construction

Hamburg University of Technology

University

Questions:

1. Show the names and student ID of all participants of the "Smart monitoring" course.

2. Calculate the average grade of the "Geomatics" course.

3. Calculate the average grade of Ms. Klemm.

4. Show the names, student ID and lectures of every student who has failed a test.

University

Solutions:

1. SELECT Student.StudentID, Student.Name FROM Student, Grade, Lecture WHERE Lecture.Name = "Smart monitoring" AND Lecture.LectureID = Grade.LectureID AND Grade.StudentID = Student.StudentID

2. SELECT Lecture. Name AS Title, AVG(Grade) AS AverageGrade FROM Grade, Lecture WHERE Grade.LectureID = Lecture.LectureID AND Lecture.Name = "Geomatics" GROUP BY Name

3. SELECT Student.Name AS Name, AVG(Grade) AS AverageGrade FROM Grade, Student WHERE Grade.StudentID = Student.StudentID AND Student.Name = "Klemm" GROUP BY NAME

4. SELECT Student.StudentID, Student.Name, Lecture.Name as Title FROM Student, Grade, Lecture WHERE Student.StudentID = Grade.StudentID AND Grade= 5 AND Lecture.LectureID = Grade.LectureID