Datenbanken II (SS 2018)

Exercise 1

Given the following database schema:

Division (name)
Team (tid, name, divname → Division)
Player (num, tid → Team, name, weight, height, dob, position)
Match (matchno, date, guest → Team, home → Team, guestscore, homescore)
played ((num, tid) → Player, matchno → Match, pts, field-goal-attempt, field-goal-match, dev)

1. Create the table definitions for the given DB schema!

2. SQL: Data Manipulation Language (DML)
   (a) Insert into the Division table the following divisions: Atlantic, Central, Midwest and Pacific.
   (b) Insert into the Match table the match Utah Jazz (TID:UTA) vs. Dallas Mavericks (TID:DAL) from October, 5th 2003. The match took place in Dallas and ended 90 to 85 for Utah.
   (c) Correct the spelling mistake „Pacifik“ in the Division table; the correct word is „Pacific“.
   (d) Remove all data from the table played.

3. Formulate the following queries in SQL.
   (a) Select the names of all players of the Sacramento Kings. (Are there different opportunities?)
   (b) Select all players whose name ends with Davis.
   (c) Select all players, whose height is at least 2m or whose weight is more than 100kg.
   (d) Select all possible games/matches of the Pacific Division.
   (e) Give the percental value of field goals (in relation to the attempts) per player in descending order.
   (f) Select name and team of all players without a match (up to now).

Good Luck!