

6: Relational Algebra

- Points: **20**
- Assignment:
 - **Express at least 5 non-trivial queries in relational algebra** within your database
 - Use at least once each of the following constructs:
 - **Selection, projection** as well as **attribute renaming**
 - **Natural join, theta join, Cartesian product**, as well as **outer join**
 - **Set operation**: union, intersection or minus
 - **Division**
- Requirements:
 - **Add comments describing the intended meaning of your queries in a natural language**
 - All query expressions must yield different queries, i.e. they cannot be just different expressions for the same query
 - You may modify your relational model schema (from the second assignment) if necessary
 - You must extend and/or correct your relational schema in case it did not contain all the required constructs