

4: SQL: Data Querying

- Points: 20
- Assignment:
 - **Express at least 5 non-trivial queries in SQL** within your database
 - Use at least once each of the following constructs:
 - **Natural join**, generic **inner join**, as well as **outer join**
 - **Grouping and aggregation** (both *GROUP BY* and *HAVING* clauses)
 - One **set operation**: *UNION*, *INTERSECT* or *EXCEPT*
 - **Sorting** (*ORDER BY* clause)
 - **Sub-query** expression
- 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
 - Your SQL script must be **syntactically correct and executable** without errors, even repeatedly
 - You may modify your database schema (from the previous assignment) if necessary
 - You must extend and/or correct your database schema in case it did not contain all the required constructs
- Submission:
 - **/sql-schema.sql**: SQL script with the definition of your database schema (possibly altered, will not be assessed)
 - **/sql-queries.sql**: SQL script with your query expressions
- Deadlines:
 - **Group 111** - Jana Ahmad: **Monday 9. 4. 2018** until 23:59
 - **Groups 101, 102, 103 and 104** - Martin Svoboda: **Monday 9. 4. 2018** until 23:59
 - **Groups 109 and 110** - Radomír Černoch, Gustav Šourek: **Tuesday 10. 4. 2018** until 23:59
 - **Groups 105, 106, 107 and 108** - Martin Řimnác: **Wednesday 11. 4. 2018** until 23:59