**Course Work**

**Part 6. Relational algebra**

**Goal:** to create SQL queries for the following tasks.

Each task is an operation of Relational algebra or an SQL statement which corresponds to an operation of Relation algebra. Use them to create SQL queries for the database of your Project. Write one query for every task, add description of the query result and a screenshot with representation of this result. Result of the work is a report with description of queries, SQL scripts and screenshots (for every query).

**Tasks:**

1. Projection

2. Selection

3. UNION

4. EXCEPT

5. INTERSECT

6. INNER JOIN

7. LEFT OUTER JOIN

8. RIGHT OUTER JOIN

9. FULL OUTER JOIN

10. CROSS JOIN

**Upload:** a report (\*.doc(x)/ \*.pdf)

**Materials:**

Lectures 7,9;

[www.postgresql.org/docs/manuals/](http://www.postgresql.org/docs/manuals/)

**Deadline.** For every day after the deadline: -2%