- 1)
 SELECT t1.number FROM (SELECT g.number, count(*) FROM groups g
 LEFT OUTER JOIN schedules s ON g.id = s.group_id GROUP BY g.number)
 t1 WHERE t1.count = (SELECT max(t2.count) FROM (SELECT g.number, count(*) FROM groups g LEFT OUTER JOIN schedules s ON g.id = s.group_id group by g.number) t2);
- 2)
 SELECT chair_num, count(*) as nagruzka FROM teachers t LEFT OUTER
 JOIN schedules s ON t.id=s.teacher id GROUP BY chair num;
- 3)
 SELECT t1.number FROM (SELECT r.number, s.day, count(*) FROM rooms r
 LEFT OUTER JOIN schedules s ON r.id = s.room_id WHERE day < 7
 GROUP BY r.number, s.day) t1 WHERE count < 2;
- 4)
 SELECT distinct t.fio FROM teachers t LEFT OUTER JOIN schedules s ON t.id = s.teacher_id LEFT OUTER JOIN disciplines d ON d.id = s.discipline_id WHERE d.name LIKE 'математика' OR d.name LIKE 'физика';
- 5)
 SELECT s.pair, d.name, r.number, t.fio FROM groups g LEFT OUTER JOIN schedules s ON g.id = s.group_id LEFT OUTER JOIN disciplines d ON d.id = s.discipline_id LEFT OUTER JOIN rooms r ON r.id = s.room_id LEFT OUTER JOIN teachers t on t.id = s.teacher_id WHERE g.number = 1171 AND s.day = 1 ORDER BY s.pair ASC;