SELECTS	TIME WITHOUT INDEX	TIME WITH INDEX	INDEX
SURNAMES AND AVERAGE GRADES OF STUDENT FROM COURSE 'Coursename1' WHO HAVE AVG > 8.5	5,961	0,177	COURSE(name);
THE OLDEST STUDENTS ON EACH COURSE	7,376	9,004	-
MALE TEACHERS ON 'full-time' studies WITH AT LEAST 1 CONSULTATION_HOURS IN ROOM 200 ON FRIDAYS	4,995	0,880	CONSULTATION_HOURS(day,room);
COURSES WITH EXAM WITH THE HIGHEST ECTS WITH THE ATTENDANCE > 800 ON FACULTIES IN Cork	1,127	5,714	Course(Exam);
SELECTS 4,3,2,1 WITHOUT INDEXES			

```
SELECT c.Name, c.ECTS, f.city, f.dean ,COUNT(a.id) FROM COURSE c JOIN ATTEND...   62 row(s) returned       1.127 sec / (
select p.surname, COUNT(c.Day) as 'FRIDAY CONSULTATIONS' from person p  JOIN...   1 row(s) returned         4.995 sec /
select p.Surname, p.Birthdate from person p where p.Birthdate IN (  select min(pp.bi...  1000 row(s) returned  7.376 sec /
select p.surname , avg(m.mark), c.name from person p  INNER JOIN student s ON p....   7 row(s) returned        5.961 sec /
```

| **SELECTS 4,3,2,1 WITH INDEXES** | | | |

```
SELECT c.Name, c.ECTS, f.city, f.dean ,COUNT(a.id) FROM COURSE c JOIN ATTEND...   62 row(s) returned       5.714 sec / 0.000017 sec
select p.surname, COUNT(c.Day) as 'FRIDAY CONSULTATIONS' from person p  JOIN...   1 row(s) returned         0.880 sec / 0.000011 sec
select p.Surname, p.Birthdate from person p where p.Birthdate IN (  select min(pp.bi...  1000 row(s) returned  9.004 sec / 20.364 sec
select p.surname , avg(m.mark), c.name from person p  INNER JOIN student s ON p....   7 row(s) returned        0.177 sec / 0.0000091 sec
```