EDABA Homework 3

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1 Task 1

Find lectures with the highest ECTS

```
LECT_highest = SELECT L#, LNAME FROM LECT AS X WHERE NOT EXIST
( SELECT * FROM LECT AS Y WHERE Y.L# != X.L# AND Y.ECTS > X.ECTS )
```

2 Task 2

Find students attending some lectures with the highest ECTS

```
LECT_highest = SELECT L#, LNAME FROM LECT AS X WHERE NOT EXIST
( SELECT * FROM LECT AS Y WHERE Y.L# != X.L# AND Y.ECTS > X.ECTS )
SELECT UNIQUE SN, S#
FROM ST
WHERE ST.S# = S#_HIGHEST
S#_HIGHEST =
SELECT S#
FROM LS
WHERE LS.L# = LECT_highest.L#
```

3   Task 3

Find lectures which have more than 3 ECTS and are attended by **some** students from the track CS

```
L_THREE_CS = SELECT UNIQUE L# FROM
(SELECT L# FROM LECT WHERE ECTS > 3
INTERSECT
SELECT L# FROM ST, LS WHERE (ST.S# = LS.S# AND ST.TRACK = CS))
```

4   Task 4

Find the students attending ONLY lectures with ECTS >3, i.e. no other lectures - using EXIST (NOT EXIST) statement

```
SELECT S#, SN FROM STUDENT AS X WHERE
NOT EXIST
( SELECT S# FROM LECTURES AS Y WHERE Y.ECTS < 4)
```