A task always consists of a SQL query with a subquery. The joins are either realized with an ON, or a USING condition. The tables are placed to the right and only contain the attribute names. Actual values aren't important in this experiment.

For each task, the goal is to identify which join condition contains an attribute that isn't part of the table. The queries need to be read from top to bottom with the following expected answers.

Position of the wrong attribute	Expected answer
First join condition	1
Second join condition	2
No errors	3

Note that the colored highlighting is only used for these examples!

First example:

```
SELECT *                         n(e,c,a)
FROM n JOIN                      m(a,t,b)
      (                          q(e,k,a)
         SELECT b,c,a            f(a,t,c)
         FROM f JOIN m
         USING(a,k)
      )q1
USING(c,a)
```

//Expected answer = 1; k isn't part of table m or f

Second example:

```
SELECT *                         n(e,c,k)
FROM n JOIN                      m(a,k,b)
      (                          q(e,k,a)
         SELECT b,c,a            f(a,k,c)
         FROM f JOIN m
         ON(m.a = f.a AND m.k = m.k)
      )q1
ON(q1.c = n.c AND q1.a = n.a)
```

//Expected answer = 2; a isn't part of table n

Third example:

```
SELECT *                        n(e,c,k)
FROM n JOIN                     m(a,k,b)
    (                           q(e,k,a)
       SELECT b,c,a             f(a,k,c)
       FROM f JOIN m
       USING(a,k)
    )q1
USING(e,c)
```

//Expected answer = 2; e isn't part of the attributes in the projection

Fourth example:

```
SELECT *                        n(b,c,k)
FROM n JOIN                     m(a,k,b)
    (                           q(e,k,a)
       SELECT b,c,a             f(a,k,c)
       FROM f JOIN m
       ON(m.a = f.a AND m.k = m.k)
    )q1
USING(q1.b = n.b AND q1.c = n.c)
```

//Expected answer = 3;

Please solve a bunch of training tasks to ensure that the tasks are clear to you. In the testing phase, the goal is to identify the correct answer as fast as possible.

If there are any questions left, please send an email to maximilian.heinemann@stud.uni-due.de