Datenbanken: Übungsblatt 5

Florian Rauls, Christian Heusel, Philipp Göldner

Aufgabe 1	Aufgabe 2	Aufgabe 3	Aufgabe 4	Σ

Aufgabe 1

Bitte um Anmerkungen hinsichtlich Formatierung der Anfragen!

```
1. SELECT
      a.name
  FROM
      ARTIST a, COUNTRY c
  WHERE
      c.name='Germany'
      and begin_year > 1950
      and begin_year < 1970
      -- Exclude the bands
      and a.type = 'Group'
      and c.id = a.origin
2. SELECT DISTINCT
      c.city
  FROM
      ARTIST a, Concert c
  WHERE
      a.id = c.artist
      and a.name = 'Rammstein'
      and c.name = 'Winter 2001 Tour'
3. SELECT
      a0.name, (a.end_year-a.begin_year) AS Dauer
  FROM
      ARTIST_RELATION a
      INNER JOIN ARTIST a1 ON a.artist1 = a1.id
          INNER JOIN ARTIST a0 ON a.artist0 = a0.id
  WHERE
      a.type = 'married'
             and a1.name = 'Morgan, Lorrie'
  or a0.name = 'Morgan, Lorrie'
4. SELECT
      r0.name, r0.year
  FROM
      RELEASE rO
      LEFT OUTER JOIN RELEASE r1
          ON r0.format = r1.format AND r0.year > r1.year
      WHERE
          r1.year IS NULL
          AND rO.year IS NOT NULL
          AND r0.format = 'Cassette'
```

```
5. SELECT
        al.name, al.begin_year AS Geburtsjahr
    FROM
         ARTIST_RELATION a
         INNER JOIN ARTIST a1 ON a.artist1 = a1.id
            INNER JOIN ARTIST a0 ON a.artist0 = a0.id
    WHERE
        a.type = 'parent'
        and a0.name = 'Smith, Will'
    ORDER BY
         a1.begin_year ASC
Aufgabe 2
  1. SELECT DISTINCT
        t.name
    FROM
         TRACK t
         INNER JOIN RELEASE r ON t.tracklist = r.tracklist
    WHERE
        t.name ILIKE '%what is%'
        AND r.format = 'CD'
        AND r.year = 2011
  2. SELECT
        a1.name, char_length(a1.name)
    FROM
         ARTIST a1
        LEFT OUTER JOIN
            artist a2
         ON
            char_length(a2.name) > char_length(a1.name)
    WHERE
        a2.name is NULL
        AND a1.type = 'Group'
  3. SELECT
         substring(a.name from '\,\s(.*)') AS Vorname
    FROM
        ARTIST a
    WHERE
        a.begin_year = 1998
        AND a.type = 'Person'
        AND substring(a.name from '\,\s(.*)') is not NULL
Aufgabe 3
  1. SELECT
        a.name
    FROM
        ARTIST a
    WHERE
        a.begin_year = 1990
        AND a.type = 'Person'
        AND exists(
            SELECT *
```

FROM ARTIST b

)

WHERE a.name = b.name AND b.type = 'Group'

Aufgabe 4

- 1.
- 2.
- 3.
- 4.
- 5.