

Datenbanken: Übungsblatt 5

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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 r0
    LEFT OUTER JOIN RELEASE r1
    ON r0.format = r1.format AND r0.year > r1.year
WHERE
    r1.year IS NULL
    AND r0.year IS NOT NULL
    AND r0.format = 'Cassette'
```

```

5. SELECT
    a1.name, a1.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

```