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
  Successfully run. Total query runtime: 40 msec. 55 rows affected.
2. SELECT DISTINCT
      c.city
  FROM
      ARTIST a, Concert c
      a.id = c.artist
      AND a.name = 'Rammstein'
      AND c.name = 'Winter 2001 Tour'
      city
    Auckland
   Melbourne
     Osaka
     Perth
   Southport
     Sydney
     Tokyo
    Wayville
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'
```

name	dauer
Whitley, Keith	3
Randall, Jon	3
Kershaw, Sammy	6

```
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'
```

```
name year

Sgt. Pepper's Lonely Hearts Club Band 1967
```

```
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
```

name	geburtsjahr	
Smith, Jaden	1998	
Smith, Willow	2000	

Aufgabe 2

```
What Is It Worth
What Is Left To Say
What is Left to Say (club edit)
What Is Light? What Is Laughter? (Skrillex remix)
What is LOVE
What Is Love
(What Is) LOVE?
WHAT iS LOVE
What Is Love? (extended mix)
What is the Beautiful?
What Is This
What Is This Lovely Fragrance?
What Is This Thing Called
```

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'
```

name	char_length
All Shall Be Well (And All Shall Be Well and All Manner of Things Shall Be Well)	80

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
```

```
name
   Keke
  Karin
   Rina
  Hollie
   Riho
  Kanon
  Meimi
China Anne
Mia-Sophie
  Jaden
  Ronan
```

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'
      )
     name
    Alice
     Redd
    Sofie
   Delilah
     Luce
     Ray
     Coco
   Stratus
     Juli
2. SELECT DISTINCT
      s.name
  FROM
      SONGS s JOIN CONCERT c ON s.setlist = c.setlist
      c.artist = (SELECT a.id FROM ARTIST a WHERE a.name = 'AC/DC')
      AND NOT EXISTS(
          SELECT *
          FROM
              TRACK t JOIN RELEASE r ON r.tracklist = t.tracklist
              JOIN ARTIST_CREDIT cred on cred.tracklist = t.tracklist
```

```
WHERE

cred.artist = (SELECT a.id FROM ARTIST a WHERE a.name = 'AC/DC')

AND s.name = t.name

name

Bonny

Heartbreak Hotel

Honky Tonk Women

INTRO- Beavis and Buthead

Jailhouse Rock

Jumpin' Jack Flash

Lucille

Messin' With the Kid

That's All Right

Tutti Frutti
```

Aufgabe 4

```
1. SELECT
      count(c.country) as Konzert_anzahl, cou.name
      CONCERT c JOIN COUNTRY cou ON cou.id = c.country
  GROUP BY
      cou.name
  ORDER BY
      Konzert_anzahl DESC
  Successfully run. Total query runtime: 60 msec. 116 rows affected.
2. SELECT
      c.name, count(a.name) AS anzahl_kuenstler
  FROM
      CONCERT c JOIN ARTIST a ON a.id = c.artist
  GROUP BY
      c.eventdate, c.name, a.name
  ORDER BY
      anzahl_kuenstler DESC
  Successfully run. Total query runtime: 438 msec. 190003 rows affected.
3. SELECT
      release.label, count(release.format)
  FROM
     release
  GROUP BY
      release.label, release.format
  HAVING
      release.format = 'CD'
      AND count(release.format) > 1500
  ORDER BY count DESC
```

	label	count
	Columbia Records	3683
	Polydor	2440
	EMI Records	2293
	Mercury	2160
	Epic	1945
	Virgin	1827
	Rhino	1802
	Capitol Records	1574
	Warner Bros. Records	1567
4.		'