Uebungsblatt 5

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Aufgabe 1

```
count version:
SELECT LNr
FROM (SELECT *
           FROM LIEFERUNG NATURAL JOIN TEIL
           WHERE Farbe = 'gruen') A
GROUP BY LNr
HAVING count(distinct PNr) = (SELECT count(distinct PNr) FROM A);
SELECT LNr
FROM (SELECT *
           FROM LIEFERUNG NATURAL JOIN TEIL
           WHERE Farbe = 'gruen') A1
WHERE NOT EXISTS
    (SELECT distinct PNr
    FROM (SELECT *
                FROM LIEFERUNG NATURAL JOIN TEIL
                WHERE Farbe = 'gruen') A2
               WHERE NOT EXISTS (SELECT distinct PNr FROM A2 WHERE A2.LNr = A1.LNr));
Aufgabe 2
      CREATE TABLE Schiffe(schiff_nr int PRIMARY KEY);
      CREATE TABLE Piraten(
      pId numeric(8, 2) PRIMARY KEY,
      pName varchar(50) NOT NULL UNIQUE,
      pShout varchar(50) DEFAULT 'Arr!' NOT NULL,
      pFakeHand int NOT NULL CHECK(pFakeHand BETWEEN 0 AND 2),
      ShipNr int CONSTRAINT angeheuert REFERENCES Schiffe(schiff_nr) ON DELETE CASCADE);
      ALTER TABLE Piraten
      ADD CONSTRAINT Arr_Pirate CHECK (pFakeHand = 0 OR pShout LIKE '%arr%');
     ALTER TABLE Piraten DROP CONSTRAINT Arr_Pirate;
     CREATE ASSERTION noShoutCliche CHECK (
      (SELECT count(*) FROM Piraten WHERE pShout LIKE '%arr%')
      <= 0,9 * (SELECT count(*) FROM Piraten)
      );
```

Aufgabe 3

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