## bungsblatt 5

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## Aufgabe 1

```
count version:
SELECT LNr
FROM (SELECT *
           FROM LIEFERUNG NATURAL JOIN TEIL
           WHERE Farbe = 'gr<fc>n') 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 = 'gr<fc>n') A1
WHERE NOT EXISTS
    (SELECT distinct PNr
    FROM (SELECT *
                FROM LIEFERUNG NATURAL JOIN TEIL
                WHERE Farbe = 'gr<fc>n') A2
               WHERE NOT EXISTS (SELECT distinct PNr FROM A2 WHERE A2.LNr = A1.LNr));
```

## Aufgabe 2

a. \begin{verbatim} 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); \end{verbatim}

```
    b. ALTER TABLE Piraten
        ADD CONSTRAINT Arr_Pirate CHECK (pFakeHand = 0 OR pShout LIKE '%arr%');
    c. ALTER TABLE Piraten DROP CONSTRAINT Arr_Pirate;
    d. CREATE ASSERTION noShoutCliche CHECK (
        (SELECT count(*) FROM Piraten WHERE pShout LIKE '%arr%')
```

<= 0,9 \* (SELECT count(\*) FROM Piraten)

## Aufgabe 3

);