

BLATT 8

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Aufgabe 1. connect to UEBUNG;

```
CREATE VIEW family (X,Y) AS
WITH MOTHERANCESTRY(Ancestor , Descendant) AS
    ((SELECT Mother , Child FROM MOTHERHOOD) UNION ALL
     (SELECT x.Mother , y.Descendant FROM MOTHERHOOD x , MOTHERHOOD y))
FATHERANCESTRY(Ancestor , Descendant) AS
    ((SELECT Father , Child FROM FATHERHOOD) UNION ALL
     (SELECT x.Father , y.Descendant FROM FATHERHOOD x , FATHERHOOD y))
ANCESTRY(X,Y) AS
    ((SELECT Ancestor , Descendant FROM MOTHERANCESTRY) UNION
     (SELECT Descendant , Ancestor FROM MOTHERANCESTRY) UNION
     (SELECT Ancestor , Descendant FROM FATHERANCESTRY) UNION
     (SELECT Descendant , Ancestor FROM FATHERANCESTRY)),
COMMONANCESTRY(X,Y) AS
    (SELECT DISTINCT a.X,b.X FROM ANCESTRY a , ANCESTRY b WHERE a.Y = b.Y)
COMMONANDMARRIAGE(X,Y) AS
    ((SELECT * FROM COMMONANCESTRY) UNION
     (SELECT MAN, WOMAN FROM married) UNION
     (SELECT WOMAN, MAN FROM married)),
RELATED(X, Y) AS
    (SELECT DISTINCT a.X, b.X FROM COMMONANDMARRIAGE a , COMMONANDMARRIAGE b
     WHERE a.X <> b.X)
(SELECT * FROM RELATED);
```

terminate;

Die entsprechende Anfrage zu “Wieviele Verwandte hat Franziska?” ist `SELECT COUNT(Y) FROM family WHERE X='Franziska';` mit dem Resultat 28.

Aufgabe 2.

Aufgabe 3.