1. Select all data from your plz table!

**SELECT \* FROM plz**

a. How many attributes do you have?

**Five attributes: ID, LandID, Ort, OrtAccount, PLZ**

b. How many datasets do you have?**ONE?????**

2. Select for your colleague from the states all plz and ort from person. The new table should in this format:

|  |  |
| --- | --- |
| **ZIP** | **CITY** |

In ZIP he wants the plz and in city the ort values!

**SELECT plz AS 'ZIP', ort AS 'City' FROM plz;**

3. Please do the following selection:

a. Select all unique ort from plz

**SELECT DISTINCT ort FROM plz;**

b. Select all unique ort from plz sorting by plz ascending

**SELECT DISTINCT ort FROM plz ORDER BY ort ASC;**

c. Select all unique ort from plz sorting by ort descending

**SELECT DISTINCT ort FROM plz ORDER BY ort DESC;**

4. How many unique cities do we have, which start with “BE…”

**SELECT count(DISTINCT ort) AS CityWithBECount FROM plz WHERE ort LIKE 'BE%'; => 243 Cities start with BE**

5. Select all cities where the plz is between 60000 AND 91234.

a. Use once the operator between

**SELECT Ort, PLZ FROM plz WHERE plz BETWEEN 60000 AND 91234;**

b. and create a new query by using another operator

**SELECT Ort, PLZ FROM plz WHERE plz >= 60000 AND plz <= 91234;**

6. Select all plz (by using the IN operator) from the following cities:

Berlin **SELECT plz FROM plz WHERE ort IN ('Berlin');**

Frankfurt **SELECT plz FROM plz WHERE ort IN ('Frankfurt‘); //returns EMPTY!!!**

Aachen **SELECT plz FROM plz WHERE ort IN ('Aachen');**

7. Select all 4 digits unique cities from plz where are in this format

B\*\*N **SELECT DISTINCT ort FROM plz WHERE ort LIKE ('B\_\_N');**

8. Execute the following queries:

a. SELECT \* FROM plz WHERE ort LIKE 'B\_\_N' AND plz < '30000' OR ort =

'Dietzenbach';

b. SELECT \* FROM plz WHERE ort LIKE 'B\_\_N' AND (plz < '30000' OR ort =

'Dietzenbach');

Why do we get different results?

**Because of the parentheses, the order in which the logical operators are calculated has changed.**

**a. all PLZ (that are the form ‘B\*\*N’ and also have PLZ less than 3000), or (all PLZ that have ort = ‘Dietzenbach’)**

**b. all PLZ (that are the form ‘B\*\*N’) and also (have PLZ less than 3000, or that have ort = ‘Dietzenbach’)**