FRANKFURT
UNIVERSITY
OF APPLIED SCIENCES

Theoretical Part

1. Describe in your own words what is meant with **candidate key**? Which two important properties should a candidate key have?

2. Describe two criteria's for a „good" Primary Key! Why do they have such a deep impact for us?

3. Explain in your own words what a Foreign Key is and why do we need this attribute for our referential integrity?

4. Example cases (referential integrity)
    The following tables are available:

person

vnam	nnam	str	ortID
Hans	Peter	Musterstr. 12	2
Schubert	Matthias	Beethovenstr. 87	3
Merkel	Angela	Berliner Str. 1	1
Geller	Uri	Hüpfweg 89	2
Blanco	Roberto	Geier Allee 89	8

ort

ID	ort
1	Berlin
2	Hamburg
3	Köln
4	Duisburg
5	Bremen
6	Frankfurt
7	Darmstadt
8	Nürnberg
9	München
10	Dietzenbach

   a. You want to **insert** a dataset into person. In the attribute ortID you want to insert "12"!

   b. You want to **update** a dataset into person. In the attribute ortID you want to insert "16"!

   c. You want to **change** the ID 8 to 12 from ort.

   d. You want to **delete** the ID 1 from ort.

5. Describe which settings can be used while creating a Foreign Key. Discuss the Dis- and Advantages!

6. Describe which impact the setting NULLIFY causes!