# Database System 2020

**HOMEWORK #8 Chap 5** 

This homework is Due on 12/16/2020

1. (30 points) Basic Definitions:

甲、**Relational Model**

乙、**Key of a Relation**

丙、**Artificial key or surrogate key**

丁、**Schema of a Relation**

戊、**Relational model constraint**

己、**Relational database state**

1. (10 points) Give and explain two **Referential integrity constraint** examples.
2. (10 points) Give and explain two **Semantic Integrity Constraint** examples.
3. (10 points) **What constraint violations can occur in INSERT operations?**
4. (10 points) **What constraint violations can occur in DELETE operations?**
5. (10 points) **What constraint violations can occur in UPDATE operations?**
6. (10 points) What actions can be taken if integrity constraint violation (違反) occurs?
7. (10 points) Textbook exercise 5.11.