**ER diagrams**

Terminology

1. Entity
2. Relationship
3. Attribute
4. Constraints
5. Extend ER

Basic concepts

**Relational model**

**FDs and normalization**

Concepts:

1. Anomalies

**SQL**

Terminology:

1. Declarative V.S. procedural
2. DDL
3. DML

Basic concepts

1. Multiple relation queries (join, nest)
2. When to join and when to nest?

**Data warehousing**

Terminology:

1. OLTP V.S. OLAP
2. Multidimensional data modelling (roll up, slide,…)

**Database security**

One double sided A4 cheat sheet

Questions:

1. ER diagram (10)
2. Relation model (5)
3. ER to relational mapping (5)
4. FD and minimal cover (8)
5. Normalization (8)
6. SQL (20) – student, college apply schema (similar to lecture)
7. Data warehousing and OLAP (10) – sales schema (similar to lecture)
8. Database security (10)
9. Open question (4)

Future INFS courses