**Database Design**

**(A) Project Environment:** MyEclipse for Spring 9.0 + Tomcat 6.0 + Data Studio 3.1 + DB2

**(B) Project Structure:**

1) Bookface: User level website

2) Bookface\_Manager: Manager level website

**(C) TABLE Structure: (group + tables)**

1. “USER”: USERREGISTER, USER, FRIENDREQUEST, FRIEND, CIRCLE, CIRCLEMEMBER
2. “POST”: POSTPAGE, POST, COMMENT
3. “MEESAGE”: SUBJECT, MESSAGE, MESSAGERECEIVER
4. “SIP”: SIP, SIPREQUESTMODERATOR, SIPMODERATOR, SIPREQUESTMEMBER, SIPMEMBER, SIPREQUESTINVITATION, SIPPOST, SIPCOMMENT
5. “ADVERTISEMENT”: MANAGERREGISTER, USERPREFERENCE, ADVERTISEMENT, TRANSATION

**Remark:**

1. Create two kinds of USER table: USER + MANAGER

And create two kinds of REGISTER table: USERREGISTER and MANAGERREGISTER

1. Create two kinds of POST + COMMENT table: POST + COMMENT and SIPPOST + SIPCOMMENT.
2. Create two kinds of REQUEST table: FRIENDREQUEST and SIPREQUEST (SIPREQUESTMEMBER, SIPREQUESTMODERATOR, SIPREQUESTINVITATION)
3. Create only one kind of PAGE: POSTPAGE, and ignore SIPPAGE.

I don’t combine the similar tables, because:

1. I want to generalize all primary key in addition by 1 and starting from 1, other than the Demo data given on the blackboard. The design from the blackboard will cause problem, when the number of users greater than a threshold.
2. Using a combined table with a classify attribute is waste of space.
3. An objective relation database is necessary facing the similarity of tables.
4. SIPPAGE is not useful, since SIP table can totally replace it.
5. When entity in E-R diagram has a set attribute, I separate it into an additional table.
6. For Friend table, I store one friend relation in two tuples.

**(D) Demon data:**

1) Bookface: Empty database

2) Bookface\_Manager: Manager Name = Alice

Password = Alice