**Design Concept**

Table1: Member

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| PK(member\_Id) | Name | Gender | Birth Date | Pictures(FK1) | Videos(FK2) |
| 1001 | Namo | Male | … | 100001 | 200001 |
| 1002 | Jason | Male | … | 100002 | X |
| 1003 | Joanna | Female | … | 100003 | X |
| 1004 | Jessy | Male | … | 100004 | X |
| 1005 | Min | Male | … | 100005 | 200002 |

Table2: payment for privileged member

|  |  |
| --- | --- |
| PK(member\_Id) | Confirmation ID |
| 1001 | abcxxx |
| 1005 | Defyyy |

Table3: album(for Pictures)

|  |  |
| --- | --- |
| PK(album\_Id) | Pictures code |
| A | 100001 |
| B | 100001 |
| C | 100003 |

Table4: Pictures

|  |  |  |
| --- | --- | --- |
| PK(pic\_Id) | Link(addr) | album\_Id |
| i. | … | A |
| ii. | … | C |
| iii. | … | B |
| iV. | … | A |

Table5: Videos

|  |  |  |
| --- | --- | --- |
| PK(video\_Id) | Link(addr) | Videos code |
| 01 | … | 200001 |
| 02 | … | 200002 |
| 03 | … | 200002 |
| 04 | … | 200004 |

Table6: Tags

|  |  |  |
| --- | --- | --- |
| PK(tag\_Id) | member\_Id | pic\_Id |
| 1 | 1001 | i. |
| 2 | 1002 | ii. |
| 3 | 1004 | v. |

Table7: Friendship(bi-directional) <- may append to Table1

|  |  |
| --- | --- |
| PK(member\_Id) | User\_Id |
| 1001 | 1002,1003,1007 |
| 1002 | 1001,1005,1008 |
| 1003 | 1001 |
| 1005 | 1002,1008 |
| 1007 | 1001 |
| 1008 | 1002,1005 |

[Description] member\_Id: 1001 created a status(status\_Id:3), and his friends (member\_Id: 1003, 1007) given a comment with text and one picture (comment\_Id: 002, 004) separately.

Table8: status

|  |  |
| --- | --- |
| PK(status\_Id) | member\_Id |
| 1 | 1002 |
| 2 | 1001 |
| 3 | 1001 |

Table9: comments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| PK(comment\_Id) | text | pic | member\_Id | status\_Id |
| 001 | … | … | 1001 | 1 |
| 002 | … | … | 1003 | 3 |
| 003 | … | … | 1003 | 5 |
| 004 | … | … | 1007 | 3 |