# Task P4.1.2

|  |  |  |  |
| --- | --- | --- | --- |
| **stud\_id** | **subj\_code** | **Marks** | **grade** |
| 1234 | ITM2005 | 83 | D |
| 1234 | ACS1005 | 44 | N |
| 9555 | ITM2005 | 95 | HD |
| 9555 | PRG1001 | 66 | C |

Table

**Primary (Composite) key: Stud\_id + Subj\_code**

|  |  |
| --- | --- |
| **stud\_id[PK]** | **stud\_name** |
| 1234 | John Smith |
| 9555 | Peter Nguyen |

Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **subj\_code[PK]** | **staff\_id** | **Convenor** | **Sem** | **year** |
| ITM2005 | 111 | Bob Hauser | 01 | 2015 |
| ACS1005 | 222 | Jane Collins | 02 | 2015 |
| PRG1001 | 333 | Ahmad Singh | 02 | 2015 |

Table

|  |  |
| --- | --- |
| **subj\_code[PK]** | **subj\_title** |
| ITM2005 | System Architecture |
| ACS1005 | Data Mgmt |
| PRG1001 | Programming I |

Table

To remove partial dependencies and to convert table into 2 nd normal form, I separate stud\_name with stud\_id as its primary key as it only dependent on stud\_id. I also removed subj\_title, Convenor and sem\_year with subj\_code as primary key because all of these only depend on subj\_code alone. On the other hand, grade is dependent on both stud\_id and subj\_code..