

stud_id	stud_name	subj_code	subj_title	Sem	Year	staff_id	convenor	Mark	Grade
1234	John Smith	ITM2005	System Architecture	1	2015	111	Bob Hauser	83	D
1234	John Smith	ACS1005	Data Mgmt	2	2015	222	Jane Collins	44	N
9555	Peter Nguyen	ITM20005	System Architecture	1	2015	111	Bob Hauser	95	HD
9555	Peter Nguyen	PRG1001	Programming I	2	2015	333	Ahmad Singh	65	C

The original table had many attributes that were multivalued. The entries in these multivalued attributes are in the same order, so we need to find the second entry in subj\_code to match the second entry in grade if we want to know how well a student performed in a subject. We simply give each of the subject a row by itself. Each subject now has a tuple to itself. The entries in each column are the same type. It is important to achieve 1NF as it eliminates redundancy, reducing data inconsistency issues by ensuring the table has no repeating groups. To further eliminate multivalued attributes, we also must break sem\_year into separate attributes, sem and year. The same has to be done for grade attribute.