Lab 5.

1.

Yes. Let’s take this table as example. Student\_id is primary key.

|  |  |  |
| --- | --- | --- |
| Student\_id | Subject\_id | Teacher\_id |
| 1234 | BIO | 9999 |

Dependency teacher\_id -> student\_id is not direct. Teacher\_id depends on subject\_id, which is not primary key.

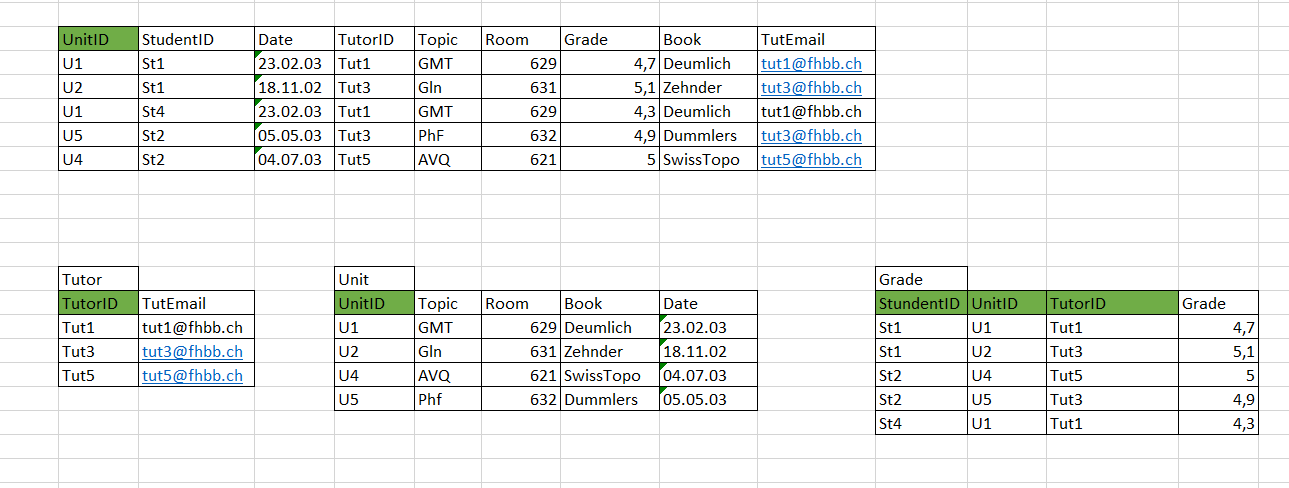
We convert this table into BCNF.

|  |  |
| --- | --- |
| Student\_id | Subject\_id |
| 1234 | BIO |

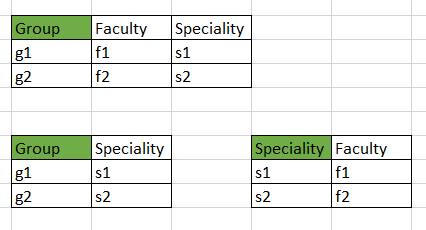
|  |  |
| --- | --- |
| Subject\_id | Teacher\_id |
| BIO | 9999 |

Dependency teacher\_id ->student\_id is still conserved, but it’s not observed within one table.

2.



4.



5.

