**4/30/2020**

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| **Violation of Normal Form** | **Violating FD: X->A** |
| 2NF | (1) X is a proper subset of a CK, and (2) A is non-prime |
| 3NF | (1) X is not a SK, and (2) A is non-prime |
| BCNF | X is not a SK |

START TRANSACTION;  
 UPDATE Account SET amount=amount-200 WHERE account\_number=1234;  
 UPDATE Account SET amount=amount+400 WHERE account\_number=2345;  
IF ERRORS=0 COMMIT  
IF ERRORS<>0 ROLLBACK;

200: magic number

transfer\_amount = 200  
START TRANSACTION;  
 UPDATE Account SET amount=amount- transfer\_amount WHERE account\_number=1234;  
 UPDATE Account SET amount=amount+ transfer\_amount WHERE account\_number=2345;  
IF ERRORS=0 COMMIT;  
IF ERRORS<>0 ROLLBACK;