**Normalization Exercise**

**Learning Goal: familiarise oneself with the terms and definitions associated with normalization and advanced normalization.**

**Match the term and its definition.**

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| Unnormalized form | a table is said to be in unnormalized form before the process of normalization. |
| First Normal Form (1NF) | a relation in which the intersection of each row and column (i.e., each field) contains one and only one value. |
| Second Normal Form (2NF) | every non-primary key attribute is fully functionally dependent on the primary key. |
| Partial dependency | when a nonprime attribute (non candidate key) is functionally dependent on part of a candidate key. |
| Candidate key | is a minimal set of attributes of an entity that uniquely identifies each occurrence of that entity |
| Third Normal Form (3NF) | no non-primary-key attribute is transitively dependent on the primary key. |
| A transitively dependent attribute | is an attribute that is dependent on an attribute that is not part of the primary key. |
| Boyce Codd Normal Form (BCNF) | a relation is in BCNF if and only if every determinant is a candidate key. |
| A determinant | is an attribute, or a group of attributes, on which some other attribute is fully functionally dependent. |

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| ~~is an attribute that is dependent on an attribute that is not part of the primary key.~~ |
| ~~is a minimal set of attributes of an entity that uniquely identifies each occurrence of that entity~~ |
| ~~is an attribute, or a group of attributes, on which some other attribute is fully functionally dependent.~~ |
| ~~every non-primary key attribute is fully functionally dependent on the primary key.~~ |
| ~~a relation is in BCNF if and only if every determinant is a candidate key.~~ |
| ~~when a nonprime attribute (non candidate key) is functionally dependent on part of a candidate key.~~ |
| ~~no non-primary-key attribute is transitively dependent on the primary key.~~ |
| ~~a table is said to be in unnormalized form before the process of normalization.~~ |
| ~~a relation in which the intersection of each row and column (i.e., each field) contains one and only one value.~~ |