**Database Normalisation Explanations**

**1st Normal Form (1NF)**

For a table to be in the 1NF, it should conform to these 4 rules:

1. It should have single (atomic) valued attributes

2. Values stored in a column should be of the same domain (datatype)

3. All the columns in the table should have unique names

4. Finally, the order of the columns in the table does not matter

**2nd Normal Form (2NF)**

For a table to be in the 2NF, it should conform to these 2 rules:

1. It should be in 1NF

2. It should not have partial dependency

(Partial Dependency: where an attribute in a table depends on only a part of the primary key and not the whole key)

**3rd Normal Form (3NF)**

For a table to be in the 3NF, it should conform to these 2 rules:

1. It should be in 2NF

2. It does not have transitive dependency

(Transient Dependency: where a non-prime key column depends on another non-prime column rather than depending on the prime key column) In other words: an attribute should depend on the key, the whole key and nothing but the key,