Normalization

? Why	.1	
.to avoid the issues that already exist in the database .1		
to avoid the anomalies .2		
Insertion anomaly .1		

- Deletion anomaly .2
- Modification anomaly .3
- Do some modifications to get the correct mapping by avoid the .2 duplication and inconsistencies
 - Functional Dependency .3
 - $PK \rightarrow Column$.1
 - Pnumber \rightarrow PName .1
 - $PK \rightarrow Columns$.2
 - $EID \rightarrow Ename, Salary$.1
 - Composite $PK \rightarrow columns$.3
 - EID + Pnumber → HourPerEmp .1
 - Types of Functional Dependency .4
 - "FFD "Full Functional Dependency .1
 - if the attributes depends on the WHOLE PK .1
 - "PFD "Partial Functional Dependency .2
 - if the attribute depends on the part of the PK .1
 - "TFD "Transitive Functional Dependency .3
 - if the two NON-PK depend on each other .1
 - Steps in Normalization .5
- NF (Normal Form): used for modifying tables to increase the .1 .performance in Database
 - $0NF \rightarrow Remove multivalued attribute \rightarrow 1NF$.2
 - $1NF \rightarrow Remove partial functional dependency \rightarrow 2NF$.3
 - $2NF \rightarrow Remove transitive functional dependency \rightarrow 3NF$.4