



# DISCON Specialists

EA Enabling Recipes

## Normal Data Analysis and Design

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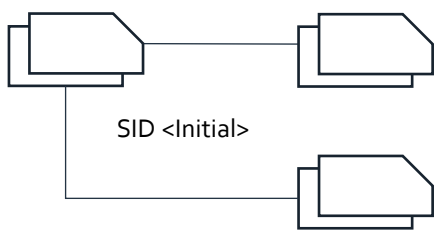
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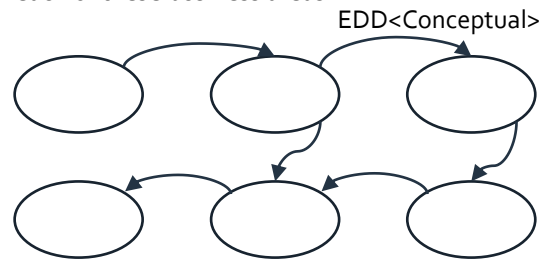
### 1.) Sub-schema Interdependency Diagram (SID)

On a high level, a Sub-schema Interdependency Diagram (SID) will be created to define the sub-systems or sub-processes involved in the system.

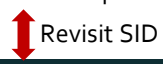


### 2.) Entity Dependency Diagram (EDD)

A conceptual model, the Entity Dependency Diagram (EDD), of each of these subsystems will then be drawn up to define the content and context of each of these business areas.

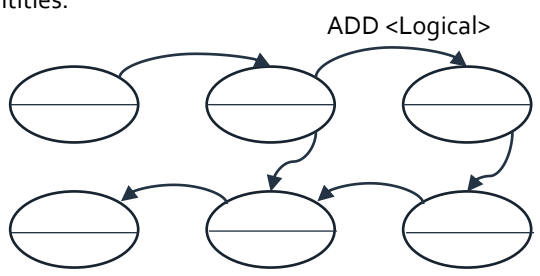


The conceptual model (EDD) will then be used to revisit and create the ideal SID. The ideal SID will depict the interfacing between the subsystems and the dependency between them. On a conceptual data model, only the entities and the anticipated functional dependencies between the entities will be depicted.



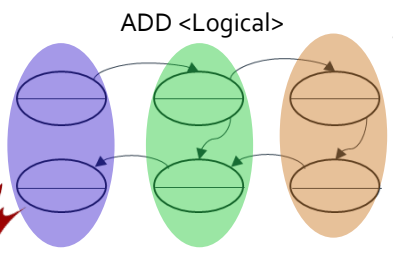
### 3.) Attribute Dependency Diagram (ADD)

The ideal conceptual model will be the entry point for creating an Attribute Dependency Diagram (ADD). From an ADD, new business areas or systems can be identified and will be used to update the SID. In a logical data model, the key sets and descriptive attributes for the entities are defined. The functional dependency is between the key sets of the entities on a logical model and not between the entities.



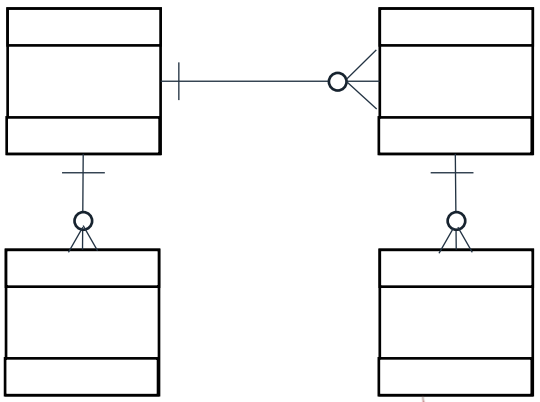
### 4.) Apply Functional Effect Backtracking (FEBT)

Applying the FEBT algorithm to the logical data model (ADD), results in a more accurate SID.



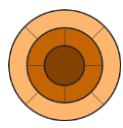
### 5.) Data Structure Diagram (DSD) <Logical>

Apply the Synthesis Algorithm to normalise the Data to 5<sup>th</sup> Normal Form.



### 4.2) System Ring Diagram (SRD)

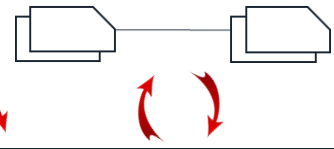
Create System Ring Diagram (SRD) to Determine System Priority.



Architectural Priority Accommodates Business System Priority.

### 4.1) SID <Actual>

Create the Ideal SID.

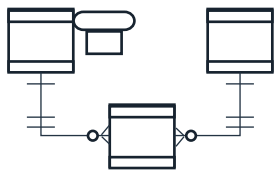


### 4.3) Business Priority

Apply Business Priorities to both SID & SRD

### 6.) Data Structure Diagram (DSD) <Physical>

Design Physical Data in Business Priority Sequence.



### 6.1) Environment / Platform

Take Physical Platform into account for design