## Phases of Data Modeling & Database Design

- High Level Data Modeling: Obvious, Core Entities (& possibly Attributes)
- Hidden and dependent and Intersection Entities, Attributes & Data Types, Relationships
- Advanced Modeling; Resolve M:M, Exclusivity, Subtypes, Patterns
- Normalization

Database Translation & Mapping: Choose Implementation Database (Relational, Network, Hierarchical, OO, NoSQL) (Mapping - Relational: E-> T, A-> C, R->FK)

Vendor Specific Mapping
Ex: Ora12 – varrays
Nested Tables,
User-defined Data Types

Performance:
Ex: Index, partitions,
Query optimization,
Denormlization

Where to implement Business rules?

## Where to Implement Business Rules?

