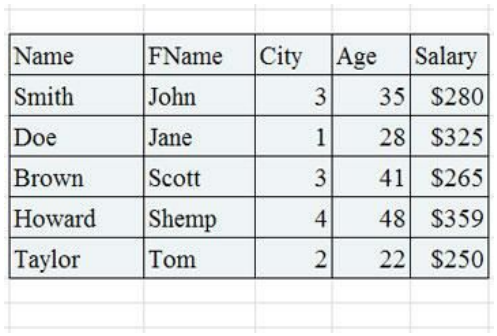
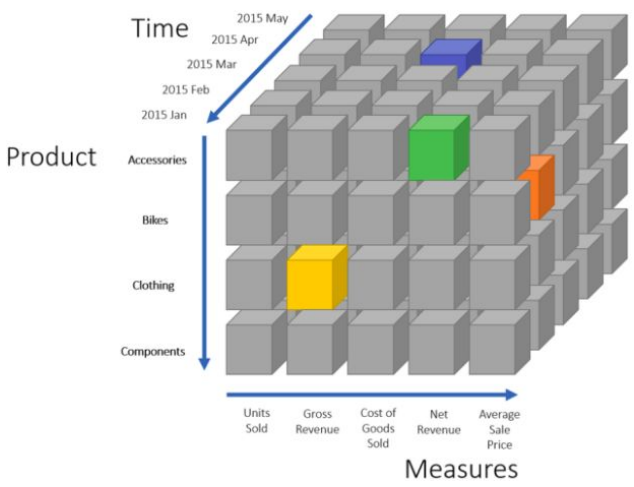
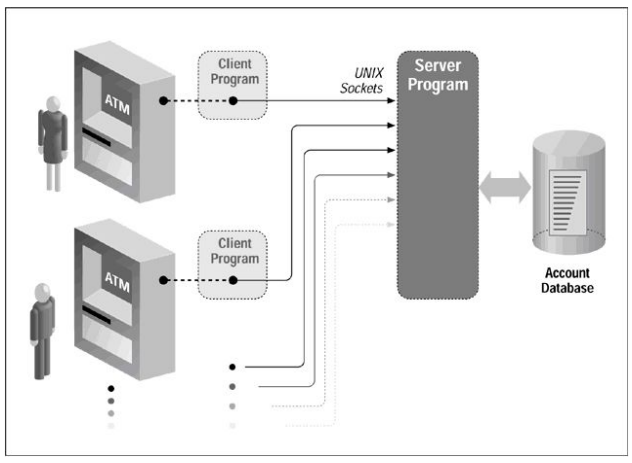
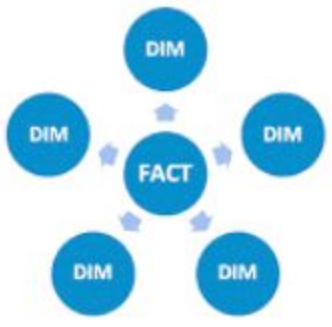
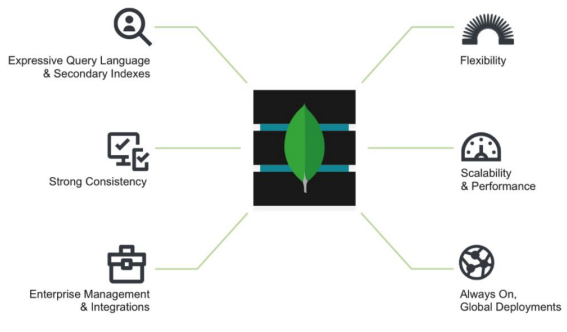
“Se muy concreta para que te lleve menos tiempo. Se trata de recomendar un modelo o base de datos para cada caso. Me razonas porqué eliges ese y descartas otros. No hagas como algunos compañeros que en el memoria me cuentan teoría que ya me se. Se trata de que razones, no de que repitas lo de las transparencias.”

MODEL	Use	Characteristics
Relational Database  Name | FName | City | Age | Salary Smith | John | 3 | 35 | $280 Doe | Jane | 1 | 28 | $325 Brown | Scott | 3 | 41 | $265 Howard | Shemp | 4 | 48 | $359 Taylor | Tom | 2 | 22 | $250	What I would use it for: - a clothing store Why: - Business intelligence analysis - Often used by companies - Can be accessed by multiple users like sales, shipping, marketing, human resources	Software: MySQL, PostgreSQL Schema-based transaction-oriented data stores
OLAP 	What I would use it for: - A school Why - A lot of measures and dimensions to combine, often requires retrieval - Many dimensions (students, teachers, classes) and facts (grades) - Less complex queries (ex, student, AVG(grade)) - Necessary to read these queries	- Business intelligence - Measure = set of labels/metadata. - Dimension describes labels. - Slight modification of OLTP - Process transactions for business intelligence -
OLTP - Online transaction processing 	Use: - ATM Why: - Need to perform many CRUD operations to insert, create, update, etc. - Will automatically input all the incoming information - Can use aggregations after to analyze the data - Can be used by more than 1 user at the same time - Responds immediately to user requests	
Star Schema 	Use: - Small business Why: - Can easily query any table/column combination with few JOINs - Do not have to be a SQL pro	
Non relational database 	Use: Google, Amazon Why: Terabytes of data stored across centers Querying/inserting would take too long Ideal for key-value stores Too big for RDBM, would require thousands of joins	XML Graph Document databases Object Key-Value MongoDB Cassandra