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CEBD 1250: BIG DATA STORAGE

Assignment: Week 5

1. **Define which property will be useful for your project (ACID vs BASE)**

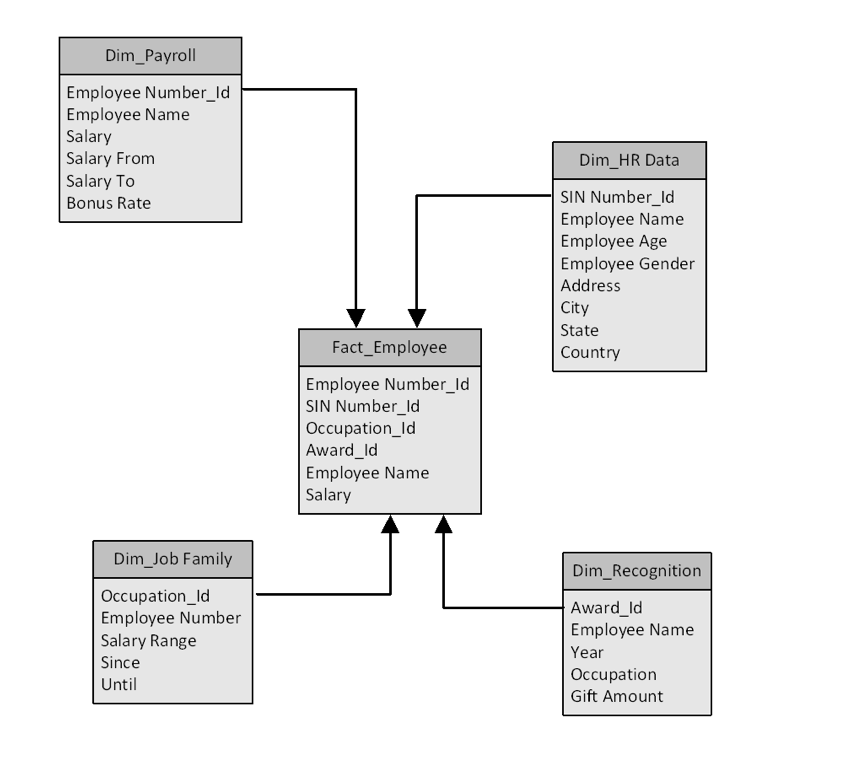
- Considering our database is dealing with Employee records, we don’t want inconsistent information, and for this reason we will use ACID due to its atomicity, consistency, isolation and durability. In other terms, we need to guarantee the validity of the information as it comes, without inconsistencies or wrong data is coming in considering the sensitive and private nature of employee records. For example, we wouldn’t want employee payrolls to be erroneously transferred over to the wrong bank account during a transaction if multiple are occurring at the same time.

1. **Define which storage option will be implemented for your project (files, relational db, NoSQL db)**

- During class 4, we decided that we will use a relational database for our project. In our case, data would be organized into tables of records and attributes; thus, relational with a unique key identifying each row.

1. **For this week, based on the database template you should have done the item 4. If the storage was relational db, you should be able to define the Conceptual, logical and physical models and its data dictionaries. *You should also be able to define the item 4.1.2 an 4.1.3.***

- Below you will find the star-schema related to our database. The information is centralized around the Fact\_Employee table, with Dim\_Payroll information, Dim\_HR Data, Dim\_Job Family, Dim\_Recognition information, where our one fact table is referencing 4 dimension tables. We need this in order to join other tables stored within different tables together into one job.

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