**Salary Ranges??!**

**Employee [has one and only one supervisor]**

* Employee\_ID ( int, 6 numeric, can’t start with zero )(PK)
* Department\_ID (40 characters, also has 4 digit key)
* First\_Name (Text, 40-60 characters)
* Middle\_Name (Text, 40-60 characters, can be null)
* Last\_Name (Text, 40-60 characters)
* Employee\_Phone (Text, 10 characters)
* Employee\_Address (Text, 30 characters)
* Employee\_City (Text, 30 characters)
* Employee\_State (Text, 2 characters)
* Employee\_ZipCode (Text, 5 characters)
* Employee\_StartDate (Date)
* Supervisor\_ID (int, can be null) [*if not null, employee = supervisor*]
* Employee\_Position(Subtype Discriminator) (int, 4 numeric)

**Team** [ have zero-to-many workers ]

* Team\_ID (PK) (int, 4 numeric, can’t start with zero, cannot be null)
* Employee\_ID (FK) ( \*6 numeric, can’t start with zero, can be null )
* Supervisor\_ID (FK) (6 numeric can’t start with zero, cannot be null)

**System Developer 1-5** (Subtype)

* Employee\_Position (PK) (int, 4 numeric)
* Position\_Name (text, 20 characters)
* Position\_StartDate (date)
* Position\_EndDate (date, can be null)
* Position\_Level (int, 1 numeric, can be null)

**Systems Engineer 1-5** (Subtype)

* Employee\_Position (PK) (int, 4 numeric)
* Position\_Name
* Position\_StartDate
* Position\_EndDate (null if currently still in position)

**Information Security Engineer 1-4** (int, Subtype)

* Employee\_Position (PK)
* Position\_Name
* Position\_StartDate
* Position\_EndDate (null if currently still in position)

**Systems Architect** (Subtype)

* Employee\_Position (PK)
* Position\_Name
* Position\_StartDate
* Position\_EndDate (null if currently still in position)

**Senior Systems Architect** (Subtype)

* Employee\_Position (PK)
* Position\_Name
* Position\_StartDate
* Position\_EndDate (null if currently still in position)

Subtypes

* Insurance Agents
* Accountants
* Janitors
* Marketing
* C-Levels

**Performance Reviews** [ one-to-many ]

* Review\_ID (PK) (int, 6 numeric, can’t start with 0)
* Employee\_ID (FK) (int, 6 numeric, can’t start with 0)
* Supervisor\_ID (FK) (int, 6 numeric, can’t start with 0, can be null)
* Manager\_ID (FK) (int, 6 numeric, can’t start with 0, can be null
* CurrentReview\_Date (date, 2 digit month, 4 digit year )
* PreviousReview\_Date (date, 2 digit month, 4 digit year, can be null )
* FutureReview\_Date (date, 2 digit month, 4 digit year, 1 year from current )
* CurrentReview\_Grade (text, 3 characters)
* PreviousReview\_Grade (text, 3 characters, can be null)
* Grade\_Rate (double, 1 number, 2 decimal)

**Reports** [ zero to many ]

* Report\_ID (PK) (int, 6 numeric, can’t start with 0)
* Employee\_ID (FK) (int, 6 numeric, can’t start with 0)
* UpdatedPay\_Amount (currency)
* Projection\_Rate (double, 1 number, 2 decimal)
* Actual\_Rate (double, 1 number, 2 decimal)
* Projected\_Grade (text, 3 characters)
* Actual\_Grade (text, 3 characters)

**Salary** [one to one]

* Pay\_ID (PK) (int, 6 numeric, can’t start with 0)
* Employee\_ID (FK) (int, 6 numeric, can’t start with 0)
* Grade\_Rate (FK) (double, 1 number, 2 decimal)
* Pay\_Date (date)
* Pay\_Amount (currency)
* UpdatedPay\_Amount (currency)
* PayPeriod\_Begin (date)
* PayPeriod\_End (date)

**Promotions** [ zero-to-many ]

* Promotion\_ID (PK) (int, 6 numeric, can’t start with 0)
* Employee\_ID (FK) (int, 6 numeric, can’t start with 0)
* LastPromotion\_Date (date, can be null)
* Promotion\_Date (date, can be null)