Final Constraints to Our Database

Primary Key(s) are in yellow

Foreign Key(s) are in red

Primary and Foreign Key(s) are in orange

Check constraint attribute(s) are blue

* Email
  + email\_id - Primary Key
    - Not Null.
    - This is unique key and is auto incremented. This primary key is an individual in the table itself.
  + person\_id - Foreign Key
    - Not Null.
    - This attaches our Email table to the Person table.
* Phone
  + phone\_id - Primary Key
    - Not Null.
    - This is unique key and is auto incremented. This primary key is an individual in the table itself.
  + person\_id - Foreign Key
    - Not Null.
    - This attaches our Phone table to the Person table.
* Position
  + position\_id - Primary Key
    - Not Null.
    - This is unique key and is auto incremented. This primary key is an individual in the table itself.
* Status
  + status\_id - Primary Key
    - Not Null.
    - This is unique key and is auto incremented. This primary key is an individual in the table itself.
* Employee
  + employee\_id - Primary Key
    - Not Null.
    - This is unique key and is auto incremented. This primary key is an individual in the table itself.
  + person\_id - Foreign Key
    - Not Null.
    - This attaches our Employee table to the Person table.
  + position\_id - Foreign Key
    - Not Null.
    - This attaches our Employee table to the Position table.
    - If the position\_id is changed, they will receive a wage increase of 25% - Check constraint
  + status\_id - Foreign Key
    - Not Null.
    - This attaches our Employee table to the Status table.
* Person
  + person\_id - Primary Key
    - Not Null.
    - This is unique key and is auto incremented. This primary key is an individual in the table itself.
* Shift
  + shift\_id - Primary Key
    - Not Null.
    - This is unique key and is auto incremented. This primary key is an individual in the table itself.
* Employee\_has\_shift
  + employee\_id - Primary and Foreign Key
    - Not Null.
    - This is a composite key used with shift\_id.
    - This attaches our Employee\_has\_shift table to the Employee table.
    - The Employee\_has\_shift table was created to facilitate the relationship between the Employee table and the Shift table.
  + shift\_id - Primary and Foreign Key
    - Not Null.
    - This is a composite key used with employee\_id.
    - This attaches our Employee\_has\_shift table to the Shift table.
    - The Employee\_has\_shift table was created to facilitate the relationship between the Employee table and the Shift table.
* Customer
  + customer\_id - Primary Key
    - Not Null.
    - This is unique key and is auto incremented. This primary key is an individual in the table itself.
  + person\_id - Foreign Key
    - Not Null.
    - This attaches our Customer table to the Person table.
    - We never want a person\_id to change, they should always be associated with the same customer\_id to avoid duplicates. - Check constraint
* Order
  + order\_id - Primary Key
    - Not Null.
    - This is unique key and is auto incremented. This primary key is an individual in the table itself.
  + order\_time
    - Not Null.
    - This allows the customer to have a references to when the customer and employee interacted to complete the order.
    - We want ensure that everything in Order is factual. Therefore if order\_time is changed, change it back to it’s original. - Check constraint
  + employee\_id - Foreign Key
    - Not Null.
    - This attaches the Order table to the Employee table.
    - We want ensure that everything in Order is factual. Therefore if employee\_id is changed, change it back to it’s original. - Check constraint
  + customer\_id - Foreign Key
    - Not Null.
    - This attaches the Order table to the Customer table.
    - We want ensure that everything in Order is factual. Therefore if customer\_id is changed, change it back to it’s original. - Check constraint
* Order\_has\_Product
  + order\_id - Primary and Foreign Key
    - Not Null.
    - This is a composite key used with product\_id.
    - This attaches our Order\_has\_Product table to the Order table.
    - The Order\_has\_Product table was created to facilitate the relationship between the Order table and the Product table.
  + product\_id - Primary and Foreign Key
    - Not Null.
    - This is a composite key used with order\_id.
    - This attaches our Order\_has\_Product table to the Product table.
    - The Order\_has\_Product table was created to facilitate the relationship between the Order table and the Product table.
  + product\_quantity
    - Not Null.
    - Gives us the quantity on a given order. Can be used to determine total cost on an order.
    - If product quantity is updated to 0 or below, order 10 new products automatically. - Check constraint
* Product
  + product\_id - Primary Key
    - Not Null.
    - This is unique key and is auto incremented. This primary key is an individual in the table itself.
  + product\_name
    - Not Null.
    - The name of the product.
    - If product name is updated, change it back to the original name. We do not want to allo name changes, add a new product instead. - Check constraint