

To create the required tables, we utilized our relational schema for the column names and their corresponding relations/constraints (Primary Key/Foreign key/Attribute) .

The tables were created using the “CREATE TABLE” construct.

The attributes of string types were declared as `VARCHAR(255)` , arbitrarily assuming the strings to be limited to 255 characters.

Phone and card numbers were limited using the `BIGINT` datatype, allowing them to assume values more than `INT_MAX` .

The rest of the integer values were declared as normal `INTs`.

Data constraints include the following:

- `NOT NULL` - attributes that must take a value within the specified domain
- `AUTO_INCREMENT` - Primary Keys of the type *entity\_name\_ID* use `AUTO_INCREMENT` to ensure no two instances of the same entity get the same ID i.e. ensure Key Constraint is not violated
- `NULL` - attributes that could potentially be `NULL` (including payment information in the person table).

Then we used an online data generator (<https://filldb.info/>) to populate the tables with data that fits, even in the context of real life and our predefined constraints.

The data is inserted using the “INSERT INTO” commands for each data value. Each table takes an arbitrary number of entries, while maintaining consistency across tables to ensure there is no redundancy or unmatched data instances.