**Assignment 2– Part One**

* **For each table below, review the column “Description” to determine a name and data type for each column. To provide an example, I filled in a sample solution for the first column of Table 1.**
* **With any design exercise, there is more than one correct answer.**
* **Some of the descriptions may challenge you because they don’t provide explicit information as to the data type that should be used. This is often the case when a developer receives specifications from a customer or analyst. Therefore consider carefully as though you were designing the tables below to best meet the descriptions provided by your employer using only the information that is given to you. As mentioned above, there is more than one correct answer.**
* **Use consistent naming conventions for your columns.**
* **For types that require a size such as CHAR, VARCHAR, DECIMAL, etc., make sure you include the size as part of the data type. For example, to create a VARCHAR of size 10, you would use VARCHAR(10) as the data type. If you aren’t sure what size to make such a data type and the description does not explicitly state a certain size, then make a best estimation as to the size that you believe is appropriate to contain the data.**

Table 1: PhoneCampaign

| Description | Column Name and Data Type |
| --- | --- |
| Which campaign ID this relates to (example value of 2345) | PhoneCampaignID INT |
| The prospect ID that was contacted (example value of 6789) | ProspectID INT |
| When contact was first attempted with the prospect | ContactAttempted\_ID Varchar(20) |
| Comments related to the contact that was made | Comments\_ID Varchar(150) |
| When contact was actually made with the prospect | ContactAttempted\_ID Varchar(20) |
| Single-character code reflecting the outcome of the sale | Sales\_Code Char(15) |
| Monetary value of any sale made | Sales\_ID INT |

Table 2: Opportunity

| Description | Column Name and Data Type |
| --- | --- |
| Name of the opportunity | Revenue Opportunity |
| Which prospect ID this opportunity relates to (example value of 6789) | OpportunityID INT |
| Two-character code representing sales status | SalesStatus Char (2) |
| Date that the opportunity was raised | RaisedDate Varchar (10) |
| Probability of success represented as a numeric value | ProbabilitySuccess INT |
| Single-character rating representing the Rating associated with this opportunity (C = Cold, W = Warm, H = Hot) | Rate Varchar (4) |
| Estimated closing date | CloseDate Varchar (10) |
| Estimated revenue | ESTRevenue INT |
| Delivery address | DeliveryAddress Varchar (10) |

Table 3: SpecialOrder

| Description | Column Name and Data Type |
| --- | --- |
| Which prospect ID this order is for (example value of 6789) | SpecialOrder\_ID INT |
| External Supplier ID of the Item (example value of 4445) | Item\_ID INT |
| Description of the item | Item\_Description Varchar(45) |
| Quantity required (positive whole numbers up to 999) | Quantity\_Req INT |
| Date of order | DoO Varchar(15) |
| Promised delivery date | P\_DeliveryTime Varchar(20) |
| Actual delivery date | A\_DeliveryTime Varchar(20) |
| Special requirements (any comments related to the special order) | SR\_ID Varchar(100) |
| Quoted price per unit | QPPU INT |