This is an individual project! Each student is responsible for their own work!

**What to Do:**

1. Start understanding the data by normalizing the provided datasets using the Data Dictionary. Remember that this takes up to 80% of your time in completing this project, so start early.
2. Then clean (data munging) each of the corresponding tables, inserting flags, removing bad characters, and filling in missing data fields with known values where appropriate.
3. Create a Logical and Physical Model using ErWin or DBeaver.
4. Implement in your choice of DBMS (MySQL, MSSQL, or Oracle) (Please remember that Oracle Online has a table size limitation) by importing the cleaned data. Don’t forget to place all required CONSTRAINTS, FOREIGN KEYS, and PRIMARY KEYS.
5. Write SQL Queries to produce the results in answering the below questions. **Include both the SQL Query code and output results in your final report.**
6. Perform a linear regression using R or other preferred statistical application. Interpret the regression analysis to arrive at a suitable forecast.
7. Write and submit a report of your findings with all diagrams, graphs, output, and recommendations through eLearning Turnitin by Dec 7, 2018 at 11:59 PM.

**Questions:**

1. Write a query to display the current salary for each employee in department 300. Assume that only current employees are kept in the system, and therefore the most current salary for each employee is the entry in the salary history with a NULL end date. Sort the output in descending order by salary amount.
2. Write a query to display the starting salary for each employee. The starting salary would be the entry in the salary history with the oldest salary start date for each employee. Sort the output by employee number.
3. Write a query to display the invoice number, line numbers, product SKUs, product descriptions, and brand ID for sales of sealer and top coat products of the same brand on the same invoice.
4. The Binder Prime Company wants to recognize the employee who sold the most of their products during a specified period. Write a query to display the employee number, employee first name, employee last name, e-mail address, and total units sold for the employee who sold the most Binder Prime brand products between November 1, 2015, and December 5, 2015. If there is a tie for most units sold, sort the output by employee last name.
5. Write a query to display the customer code, first name, and last name of all customers who have had at least one invoice completed by employee 83649 and at least one invoice completed by employee 83677. Sort the output by customer last name and then first name.
6. LargeCo is planning a new promotion in Alabama (AL) and wants to know about the largest purchases made by customers in that state. Write a query to display the customer code, customer first name, last name, full address, invoice date, and invoice total of the largest purchase made by each customer in Alabama. Be certain to include any customers in Alabama who have never made a purchase (their invoice dates should be NULL and the invoice totals should display as 0).
7. One of the purchasing managers is interested in the impact of product prices on the sale of products of each brand. Write a query to display the brand name, brand type, average price of products of each brand, and total units sold of products of each brand. Even if a product has been sold more than once, its price should only be included once in the calculation of the average price. However, you must be careful because multiple products of the same brand can have the same price, and each of those products must be included in the calculation of the brand’s average price.
8. The purchasing manager is still concerned about the impact of price on sales. Write a query to display the brand name, brand type, product SKU, product description, and price of any products that are not a premium brand, but that cost more than the most expensive premium brand products.
9. Using SQL descriptive statistics functions calculate the value of the following items:
   1. What are the products that have a price greater than $50?
   2. What is total value of our entire inventory on hand?
   3. How many customers do we presently have and what is the total of all customer balances?
   4. What are to top three states that buy the most product in dollars from the company?
10. Using predictive statistics calculate what the predicted forecast of sales for the next year based on the INV\_DATE (independent) and INV\_TOTAL (dependent). Remember that you will need to convert the INV\_DATE from the MS SQL Server stored date value to the expect Julian date, since numbers in MS SQL are stored as the number of days since 1/1/1900 with the fraction as the portion of a day (if you are using a different DBMS use the appropriate code for conversion.)

declare @d1 datetime

set @d1 = 41867

select @d1

select CONVERT(varchar(20),@d1,120)

or if you want to do it in one statement:

select CONVERT(varchar(25),cast(41867 as datetime),120)

Analyze your results from the linear regression, and provide the R2, model, coefficients, and the confidence interval for your analysis.

This assignment is worth 150 points and is a culmination of all we have learned in this class on relational databases. GOOD LUCK

**Table 1: BRAND**

**Properties**

DateCreated: 5/9/2011 2:04:33 PM DefaultView: 2

DisplayViewsOnSharePointSit 1 FilterOnLoad: False

GUID: {guid {5D6A1FED-7A2A-4A33- HideNewField: False

A6CD-73DFCAE0C46E}}

LastUpdated: 5/9/2011 2:21:45 PM NameMap: Long binary data

OrderByOn: False OrderByOnLoad: True

Orientation: Left-to-Right RecordCount: 13

TotalsRow: False Updatable: True

**Columns**

Name Type Size

BRAND\_ID Long Integer 4

AggregateType: -1

AllowZeroLength: False

## AppendOnly: False

Attributes: Fixed Size

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {8F0F4504-BBE1-48F1-AC63-86FC7B6E7A07}}

## OrdinalPosition: 0

## Required: False

SourceField: BRAND\_ID

SourceTable: LGBRAND

TextAlign: General

BRAND\_NAME Short Text 100

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {43DF64BB-D82D-418B-A85E-A40E2D08EE18}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 1

Required: False

SourceField: BRAND\_NAME

SourceTable: LGBRAND

TextAlign: General

UnicodeCompression: False

Table: BRAND

BRAND\_TYPE Short Text 20

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {C236C0AB-7761-4F2E-850D-A593EC840CDD}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 2

Required: False

SourceField: BRAND\_TYPE

SourceTable: LGBRAND

TextAlign: General

UnicodeCompression: False

**Table 2: CUSTOMER**

**Properties**

DateCreated: 5/9/2011 2:04:37 PM DefaultView: 2

DisplayViewsOnSharePointSit 1 FilterOnLoad: False

GUID: {guid {9FD960EB-E05A-4E37- HideNewField: False

9345-510F0F0FACF1}}

LastUpdated: 5/9/2011 2:21:45 PM NameMap: Long binary data

OrderByOn: False OrderByOnLoad: True

Orientation: Left-to-Right RecordCount: 1362

TotalsRow: False Updatable: True

**Columns**

Name Type Size

CUST\_CODE Long Integer 4

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Fixed Size

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {417AE787-FD10-48F0-AF4D-6D2F1262BA00}}

OrdinalPosition: 0

Required: False

SourceField: CUST\_CODE

SourceTable: LGCUSTOMER

TextAlign: General

CUST\_FNAME Short Text 20

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {D3B72416-D534-412A-8F2D-8BB1C9D0E724}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 1

Required: False

SourceField: CUST\_FNAME

SourceTable: LGCUSTOMER

TextAlign: General

UnicodeCompression: False

CUST\_LNAME Short Text 20

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {60AC0171-775E-446E-A905-AA4A69D4A89A}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 2

Required: False

SourceField: CUST\_LNAME

SourceTable: LGCUSTOMER

TextAlign: General

UnicodeCompression: False

CUST\_STREET Short Text 70

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {BFAC97B3-5DAA-4E54-9AC3-D3D489D90419}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 3

Required: False

SourceField: CUST\_STREET

SourceTable: LGCUSTOMER

TextAlign: General

UnicodeCompression: False

CUST\_CITY Short Text 50

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {1F36DADA-6348-41E5-AD02-9C9E79D4305E}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 4

Required: False

SourceField: CUST\_CITY

SourceTable: LGCUSTOMER

TextAlign: General

UnicodeCompression: False

CUST\_STATE Short Text 2

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {7309195A-6C1B-4594-B413-54688D469D35}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 5

Required: False

SourceField: CUST\_STATE

SourceTable: LGCUSTOMER

TextAlign: General

UnicodeCompression: False

CUST\_ZIP Short Text 5

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {B68A3D3D-4908-4933-A216-D6E9D7ABC057}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 6

Required: False

SourceField: CUST\_ZIP

SourceTable: LGCUSTOMER

TextAlign: General

UnicodeCompression: False

CUST\_BALANCE Decimal 16

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Variable Length

CollatingOrder: 8

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {9E79E799-3282-48B5-BA9B-5A9136E54A06}}

OrdinalPosition: 7

Required: False

SourceField: CUST\_BALANCE

SourceTable: LGCUSTOMER

TextAlign: General

**Table 3: DEPARTMENT**

**Properties**

DateCreated: 5/9/2011 2:04:41 PM DefaultView: 2

DisplayViewsOnSharePointSit 1 FilterOnLoad: False

GUID: {guid {177E647B-9590-4790- HideNewField: False

97B0-F9C878FACE21}}

LastUpdated: 5/9/2011 2:22:31 PM NameMap: Long binary data

OrderByOn: False OrderByOnLoad: True

Orientation: Left-to-Right RecordCount: 8

TotalsRow: False Updatable: True

**Columns**

Name Type Size

DEPT\_NUM Long Integer 4

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Fixed Size

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {296D0D35-87B8-4773-898C-0D814D4779F5}}

OrdinalPosition: 0

Required: False

SourceField: DEPT\_NUM

SourceTable: LGDEPARTMENT

TextAlign: General

DEPT\_NAME Short Text 50

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {6A4052E2-C586-4CCE-8718-3D1FBE39EA6D}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 1

Required: False

SourceField: DEPT\_NAME

SourceTable: LGDEPARTMENT

TextAlign: General

UnicodeCompression: False

DEPT\_MAIL\_BOX Short Text 3

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {39990417-47CF-4EF2-92CA-A6399031B761}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 2

Required: False

SourceField: DEPT\_MAIL\_BOX

SourceTable: LGDEPARTMENT

TextAlign: General

UnicodeCompression: False

DEPT\_PHONE Short Text 9

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {239E1E79-AEB3-460C-ADE1-091471723E57}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 3

Required: False

SourceField: DEPT\_PHONE

SourceTable: LGDEPARTMENT

TextAlign: General

UnicodeCompression: False

EMP\_NUM Long Integer 4

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Fixed Size

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {A3AA7684-8419-41E8-8ED3-1F20BAB58E9D}}

Page: 9

OrdinalPosition: 4

Required: False

SourceField: EMP\_NUM

SourceTable: LGDEPARTMENT

TextAlign: General

**Table 4: EMPLOYEE**

**Properties**

DateCreated: 7/20/2013 9:58:09 PM DefaultView: 2

DisplayViewsOnSharePointSit 1 FilterOnLoad: False

GUID: {guid {A901D153-0638-4F13- HideNewField: False

8C0D-16091A639159}}

LastUpdated: 7/20/2013 9:58:09 PM NameMap: Long binary data

OrderByOn: False OrderByOnLoad: True

Orientation: Left-to-Right RecordCount: 363

TotalsRow: False Updatable: True

**Columns**

Name Type Size

# EMP\_NUM Long Integer 4

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Fixed Size

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {A5BA74D0-7A3A-44CA-8C3A-B6470AEA423A}}

OrdinalPosition: 0

Required: False

SourceField: EMP\_NUM

SourceTable: LGEMPLOYEE

TextAlign: General

EMP\_FNAME Short Text 20

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {3C865153-5D91-48EC-B71B-0CE4486C0E29}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 1

Required: False

SourceField: EMP\_FNAME

SourceTable: LGEMPLOYEE

TextAlign: General

UnicodeCompression: False

EMP\_LNAME Short Text 25

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {B614AF2A-613C-44B9-B3EC-0DE5B5EC2455}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 2

Required: False

SourceField: EMP\_LNAME

SourceTable: LGEMPLOYEE

TextAlign: General

UnicodeCompression: False

EMP\_EMAIL Short Text 25

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {678125AC-63EE-4B2F-B09E-53BD4CF7F4DA}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 3

Required: False

SourceField: EMP\_EMAIL

SourceTable: LGEMPLOYEE

TextAlign: General

UnicodeCompression: False

EMP\_PHONE Short Text 20

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {2EE65E6C-9803-402F-ACC9-192D24C0C116}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 4

Required: False

SourceField: EMP\_PHONE

SourceTable: LGEMPLOYEE

TextAlign: General

UnicodeCompression: False

EMP\_HIREDATE Date With Time 8

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Fixed Size

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

GUID: {guid {1C567077-E5BC-4C64-9996-F31D59A2BE09}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 5

Required: False

ShowDatePicker: For dates

SourceField: EMP\_HIREDATE

SourceTable: LGEMPLOYEE

TextAlign: General

EMP\_TITLE Short Text 45

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {618BEA4F-C98B-481A-9FF0-FEBB6FEFD304}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 6

Required: False

SourceField: EMP\_TITLE

SourceTable: LGEMPLOYEE

TextAlign: General

UnicodeCompression: False

EMP\_COMM Decimal 16

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Variable Length

CollatingOrder: 2

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {69B54C4F-D458-4DBE-98F3-08A7DA71CB86}}

OrdinalPosition: 7

Required: False

SourceField: EMP\_COMM

SourceTable: LGEMPLOYEE

TextAlign: General

DEPT\_NUM Long Integer 4

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Fixed Size

CollatingOrder: 2

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {9C1A4387-297E-400F-98E2-8F4FDC4C9ADB}}

OrdinalPosition: 8

Required: False

SourceField: DEPT\_NUM

SourceTable: LGEMPLOYEE

TextAlign: General

**Table Indexes**

Name Number of Fields

DEPT\_NUM 1

Clustered: False

DistinctCount: 8

Foreign: False

IgnoreNulls: False

Name: DEPT\_NUM

Primary: False

Required: False

Unique: False

Fields:

DEPT\_NUM Ascending

EMP\_NUM 1

Clustered: False

DistinctCount: 363

Foreign: False

IgnoreNulls: False

Name: EMP\_NUM

Primary: False

Required: False

Unique: False

Fields:

EMP\_NUM Ascending

**Table 5: INVOICE**

**Properties**

DateCreated: 7/20/2013 9:58:59 PM DefaultView: 2

DisplayViewsOnSharePointSit 1 FilterOnLoad: False

GUID: {guid {8115EB6F-2DD6-45AE- HideNewField: False

8C4E-E026F5318A92}}

LastUpdated: 7/20/2013 9:59:00 PM NameMap: Long binary data

OrderByOn: False OrderByOnLoad: True

Orientation: Left-to-Right RecordCount: 3351

TotalsRow: False Updatable: True

**Columns**

Name Type Size

INV\_NUM Long Integer 4

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Fixed Size

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {D10745D5-F6B3-4D8C-B579-AE4174265212}}

OrdinalPosition: 0

Required: False

SourceField: INV\_NUM

SourceTable: LGINVOICE

TextAlign: General

INV\_DATE Date With Time 8

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Fixed Size

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

GUID: {guid {D2297323-587D-4D02-B014-2985819288B0}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 1

Required: False

ShowDatePicker: For dates

SourceField: INV\_DATE

SourceTable: LGINVOICE

TextAlign: General

CUST\_CODE Long Integer 4

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Fixed Size

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {901DAB66-6240-47BD-AD58-FFD4F45A8F96}}

OrdinalPosition: 2

Required: False

SourceField: CUST\_CODE

SourceTable: LGINVOICE

TextAlign: General

INV\_TOTAL Decimal 16

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Variable Length

CollatingOrder: 11

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {68FE4456-8F92-49A2-8E9E-501A855DF277}}

OrdinalPosition: 3

Required: False

SourceField: INV\_TOTAL

SourceTable: LGINVOICE

TextAlign: General

EMPLOYEE\_ID Long Integer 4

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Fixed Size

CollatingOrder: 11

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {4E0D8237-1886-42FA-BF9B-E309F52FEC2C}}

OrdinalPosition: 4

Required: False

SourceField: EMPLOYEE\_ID

SourceTable: LGINVOICE

|  |  |
| --- | --- |
| TextAlign:  **Table Indexes** | General |
| Name | Number of Fields |

CUST\_CODE 1

Clustered: False

DistinctCount: 1347

Foreign: False

IgnoreNulls: False

Name: CUST\_CODE

Primary: False

Required: False

Unique: False

Fields:

CUST\_CODE Ascending

EMPLOYEE\_ID 1

Clustered: False

DistinctCount: 33

Foreign: False

IgnoreNulls: False

Name: EMPLOYEE\_ID

Primary: False

Required: False

Unique: False

Fields:

EMPLOYEE\_ID Ascending

INV\_NUM 1

Clustered: False

DistinctCount: 3351

Foreign: False

IgnoreNulls: False

Name: INV\_NUM

Primary: False

Required: False

Unique: False

Fields:

INV\_NUM Ascending

**Table 6: LINE**

**Properties**

DateCreated: 5/9/2011 2:04:50 PM DefaultView: 2

DisplayViewsOnSharePointSit 1 FilterOnLoad: False

GUID: {guid {C764ADCC-4A06-44F2- HideNewField: False

8B69-F05E9BE262B7}}

LastUpdated: 5/9/2011 2:21:45 PM NameMap: Long binary data

OrderByOn: False OrderByOnLoad: True

Orientation: Left-to-Right RecordCount: 11763

TotalsRow: False Updatable: True

**Columns**

Name Type Size

INV\_NUM Long Integer 4

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Fixed Size

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {2A598126-FE05-48E4-9776-693FC833FDF2}}

OrdinalPosition: 0

Required: False

SourceField: INV\_NUM

SourceTable: LGLINE

TextAlign: General

LINE\_NUM Long Integer 4

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Fixed Size

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {BDF7D993-0FFC-4695-9EB8-8F1808CB6DBE}}

OrdinalPosition: 1

Required: False

SourceField: LINE\_NUM

SourceTable: LGLINE

TextAlign: General

PROD\_SKU Short Text 15

Table: LINE

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {6EB7DF54-95DD-4DD3-970A-A450DAA9F21A}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 2

Required: False

SourceField: PROD\_SKU

SourceTable: LGLINE

TextAlign: General

UnicodeCompression: False

LINE\_QTY Double 8

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Fixed Size

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {A1EEA97F-36F0-4C1D-A460-DF75098D909B}}

OrdinalPosition: 3

Required: False

SourceField: LINE\_QTY

SourceTable: LGLINE

TextAlign: General

LINE\_PRICE Decimal 16

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Variable Length

CollatingOrder: 8

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {0E244686-16C1-4C2A-A7AF-E23121F7AD16}}

OrdinalPosition: 4

Required: False

SourceField: LINE\_PRICE

|  |  |  |  |
| --- | --- | --- | --- |
| Table: LINE |  |  |  |
|  | SourceTable: | LGLINE |  |
|  | TextAlign: | General |  |

**Table 7: PRODUCT**

**Properties**

|  |  |  |  |
| --- | --- | --- | --- |
| DateCreated: 5/9/2011 2:04:54 PM DefaultView: | | | 2 |
| DisplayViewsOnSharePointSit 1 FilterOnLoad: | | | False |
| GUID: | {guid {029659AF-BB7B-4DB8- HideNewField: | | False |
| 8C01-529FC540C2C2}} |  |
| LastUpdated: | 5/9/2011 2:21:45 PM | NameMap: | Long binary data |
| OrderByOn: | False | OrderByOnLoad: | True |
| Orientation: | Left-to-Right | RecordCount: | 252 |
| TotalsRow:  **Columns** | False | Updatable: | True |
| Name |  | Type | Size |

PROD\_SKU Short Text 15

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {951C3F8C-6C87-4B7F-8B4C-2E083EE061B5}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 0

Required: False

SourceField: PROD\_SKU

SourceTable: LGPRODUCT

TextAlign: General

UnicodeCompression: False

PROD\_DESCRIPT Short Text 255

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {3FF47D01-02D3-4F0B-8259-AAF173A9C35E}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 1

Required: False

SourceField: PROD\_DESCRIPT

SourceTable: LGPRODUCT

TextAlign: General

UnicodeCompression: False

PROD\_TYPE Short Text 255

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {9462FEC6-92F4-44F4-864D-28D44CD1DE09}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 2

Required: False

SourceField: PROD\_TYPE

SourceTable: LGPRODUCT

TextAlign: General

UnicodeCompression: False

PROD\_BASE Short Text 255

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {031B7244-4D79-47C4-ADF9-4343A95F91BA}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 3

Required: False

SourceField: PROD\_BASE

SourceTable: LGPRODUCT

TextAlign: General

UnicodeCompression: False

PROD\_CATEGORY Short Text 255

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {EB86F0DF-8A77-419D-8356-E0E9381BE75B}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 4

Required: False

SourceField: PROD\_CATEGORY

SourceTable: LGPRODUCT

TextAlign: General

UnicodeCompression: False

PROD\_PRICE Decimal 16

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Variable Length

CollatingOrder: 10

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {5C0D750F-50A1-4166-B027-5493249EF6ED}}

OrdinalPosition: 5

Required: False

SourceField: PROD\_PRICE

SourceTable: LGPRODUCT

TextAlign: General

PROD\_QOH Decimal 16

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Variable Length

CollatingOrder: 10

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {21C5A5EF-25F0-4F08-A6BB-5D438842AA7E}}

OrdinalPosition: 6

Required: False

SourceField: PROD\_QOH

SourceTable: LGPRODUCT

TextAlign: General

PROD\_MIN Decimal 16

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Variable Length

CollatingOrder: 10

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {5E828BD3-F251-49DF-B9B7-050527DD14D9}}

OrdinalPosition: 7

Required: False

SourceField: PROD\_MIN

SourceTable: LGPRODUCT

TextAlign: General

BRAND\_ID Long Integer 4

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Fixed Size

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {86E8486C-972A-49F3-8685-1AB2CB4A7AF1}}

OrdinalPosition: 8

Required: False

SourceField: BRAND\_ID

SourceTable: LGPRODUCT

TextAlign: General

**Table 8: SALARY\_HISTORY**

**Properties**

DateCreated: 7/20/2013 9:58:59 PM DefaultView: 2

DisplayViewsOnSharePointSit 1 FilterOnLoad: False

GUID: {guid {E3206B85-2BB8-43CC- HideNewField: False

A294-E83FD9899E3E}}

LastUpdated: 7/20/2013 9:59:00 PM NameMap: Long binary data

OrderByOn: False OrderByOnLoad: True

Orientation: Left-to-Right RecordCount: 6710

TotalsRow: False Updatable: True

**Columns**

Name Type Size

EMP\_NUM Long Integer 4

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Fixed Size

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {F4BA66AC-8BB0-4156-A73D-B2E0C2C16E92}}

OrdinalPosition: 0

Required: False

SourceField: EMP\_NUM

SourceTable: LGSALARY\_HISTORY

TextAlign: General

SAL\_FROM Date With Time 8

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Fixed Size

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

GUID: {guid {73A6A1BC-28B9-469A-AA66-4F4A8C732FAC}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 1

Required: False

ShowDatePicker: For dates

SourceField: SAL\_FROM

SourceTable: LGSALARY\_HISTORY

TextAlign: General

Table: SALARY\_HISTORY

SAL\_END Date With Time 8

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Fixed Size

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

GUID: {guid {A2805F64-BCE6-4614-AE5D-1A0802461436}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 2

Required: False

ShowDatePicker: For dates

SourceField: SAL\_END

SourceTable: LGSALARY\_HISTORY

TextAlign: General

SAL\_AMOUNT Decimal 16

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Variable Length

CollatingOrder: 10

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {DB5EBB88-0C47-43D8-88CC-20DA25857333}}

OrdinalPosition: 3

Required: False

SourceField: SAL\_AMOUNT

SourceTable: LGSALARY\_HISTORY

TextAlign: General

**Table Indexes**

Name Number of Fields

|  |  |
| --- | --- |
| EMP\_NUM | 1 |
| Clustered: | False |
| DistinctCount: | 363 |
| Foreign: | False |
| IgnoreNulls: | False |
| Name: | EMP\_NUM |
| Primary: | False |
| Required: | False |
| Unique:  Fields: | False |
| EMP\_NUM | Ascending |

**Table 9: SUPPLIES**

**Properties**

|  |  |  |  |
| --- | --- | --- | --- |
| DateCreated: 5/9/2011 2:05:00 PM | | DefaultView: | 2 |
| DisplayViewsOnSharePointSit 1 | | FilterOnLoad: | False |
| GUID: | {guid {16FB202E-A3A0-433F-  8856-22137E09899B}} | HideNewField: | False |
| LastUpdated: | 5/9/2011 2:39:10 PM | NameMap: | Long binary data |
| OrderByOn: | False | OrderByOnLoad: | True |
| Orientation: | Left-to-Right | RecordCount: | 1185 |
| TotalsRow:  **Columns** | False | Updatable: | True |
| Name |  | Type | Size |

PROD\_SKU Short Text 15

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {C0EDB227-A4EE-48DB-8503-180B01B4EF1D}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 0

Required: False

SourceField: PROD\_SKU

SourceTable: LGSUPPLIES

TextAlign: General

UnicodeCompression: False

VEND\_ID Long Integer 4

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Fixed Size

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {50C26273-9A11-4A36-86B3-1F20318721C4}}

OrdinalPosition: 1

Required: False

SourceField: VEND\_ID

SourceTable: LGSUPPLIES

TextAlign: General

**Table 10: VENDOR**

**Properties**

DateCreated: 5/9/2011 2:05:03 PM DefaultView: 2

DisplayViewsOnSharePointSit 1 FilterOnLoad: False

GUID: {guid {223810D3-0DF4-4561- HideNewField: False

80C1-E1FDCB2F3E2B}}

LastUpdated: 5/9/2011 2:39:10 PM NameMap: Long binary data

OrderByOn: False OrderByOnLoad: True

Orientation: Left-to-Right RecordCount: 22

TotalsRow: False Updatable: True

**Columns**

Name Type Size

VEND\_ID Long Integer 4

AggregateType: -1

AllowZeroLength: False

AppendOnly: False

Attributes: Fixed Size

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DecimalPlaces: Auto

DisplayControl: Text Box

GUID: {guid {D1FECBDE-2DCD-4D7C-8F8C-C49C27AF9972}}

OrdinalPosition: 0

Required: False

SourceField: VEND\_ID

SourceTable: LGVENDOR

TextAlign: General

VEND\_NAME Short Text 255

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {E046794A-B15B-4EC4-8314-BFDC85C894BE}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 1

Required: False

SourceField: VEND\_NAME

SourceTable: LGVENDOR

TextAlign: General

UnicodeCompression: False

VEND\_STREET Short Text 50

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {9FE26E38-CBD8-41A2-8F94-0BA12C315051}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 2

Required: False

SourceField: VEND\_STREET

SourceTable: LGVENDOR

TextAlign: General

UnicodeCompression: False

VEND\_CITY Short Text 50

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {09DBA7D4-17B0-44A6-83B6-C5E74AF296A2}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 3

Required: False

SourceField: VEND\_CITY

SourceTable: LGVENDOR

TextAlign: General

UnicodeCompression: False

VEND\_STATE Short Text 2

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {D4D3A2AC-2020-4E77-B08D-EEA16EA4A62B}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 4

Required: False

SourceField: VEND\_STATE

SourceTable: LGVENDOR

TextAlign: General

UnicodeCompression: False

VEND\_ZIP Short Text 5

AggregateType: -1

AllowZeroLength: True

AppendOnly: False

Attributes: Variable Length

CollatingOrder: General

ColumnHidden: False

ColumnOrder: Default

ColumnWidth: Default

DataUpdatable: False

DisplayControl: Text Box

GUID: {guid {3FAC0348-594E-4F0A-A512-E7CFF35647DD}}

IMEMode: 0

IMESentenceMode: 3

OrdinalPosition: 5

Required: False

SourceField: VEND\_ZIP

SourceTable: LGVENDOR

TextAlign: General

UnicodeCompression: False