Executive Summary

This report tracks the improvement that Premiere Products' has made in the implementing of a Data Warehouse. In this summary, we will provide a quick analysis of the company and show both our Transactional Database Design and we will also show our Data Warehouse Design. We will then show the steps we had to take to create both of our database designs and then provide the new star schema, ERD, fact table, and dimension tables from our completed databases. Finally we will provide a couple of reports that were created from using our Access database.
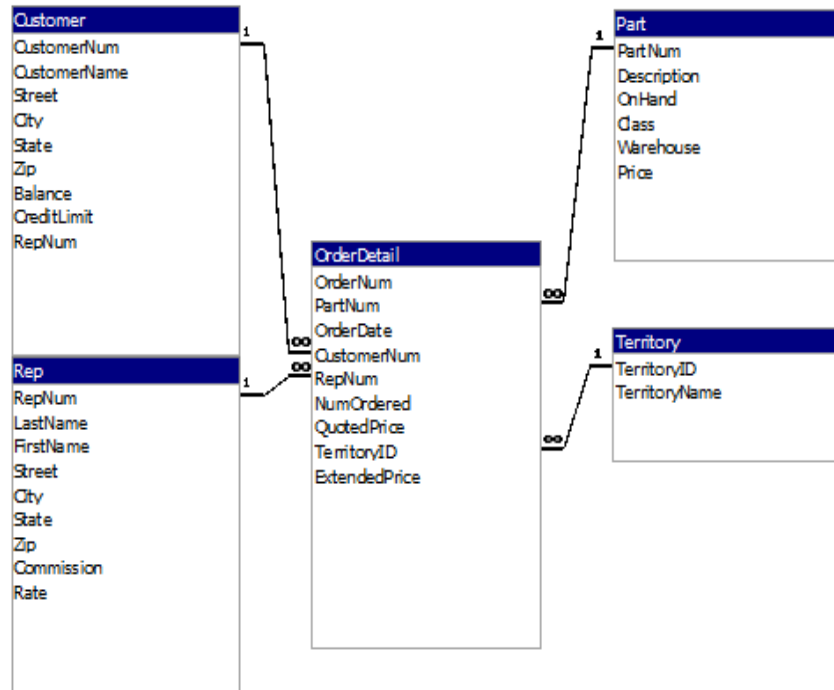
Overview of Premiere Products

Premiere Products is a company that distributes house-wares, appliances, and sporting goods. The company was originally using spreadsheet software to keep track of all their required information. But, as the amount of information grew the company made the switch to using an Access database.

Transactional Database Design

Relation Listing of Transaction Database:

Underline Fact Table:
(1NF) OrderDetail [*OrderNum*, *PartNum*, OrderDate, CustomerNum, RepNum, NumOrdered, QuotedPrice, ExtendedPrice, *TerritoryID*]
FK PartNum → Part
FK CustNum → Customer
FK RepNum → Rep
Fk TerritoryID → Territory

Dimension Tables:
(3NF) Customer [CustomerNum, CustomerName, Street, City, State, Zip, Balance, CreditLimit, RepNum]
(3NF) Rep [RepNum, LastName, FirstName, Street, City, State, Zip, Commission, Rate]
(3NF) Part [PartNum, Description, OnHand, Class, WareHouse, Price]
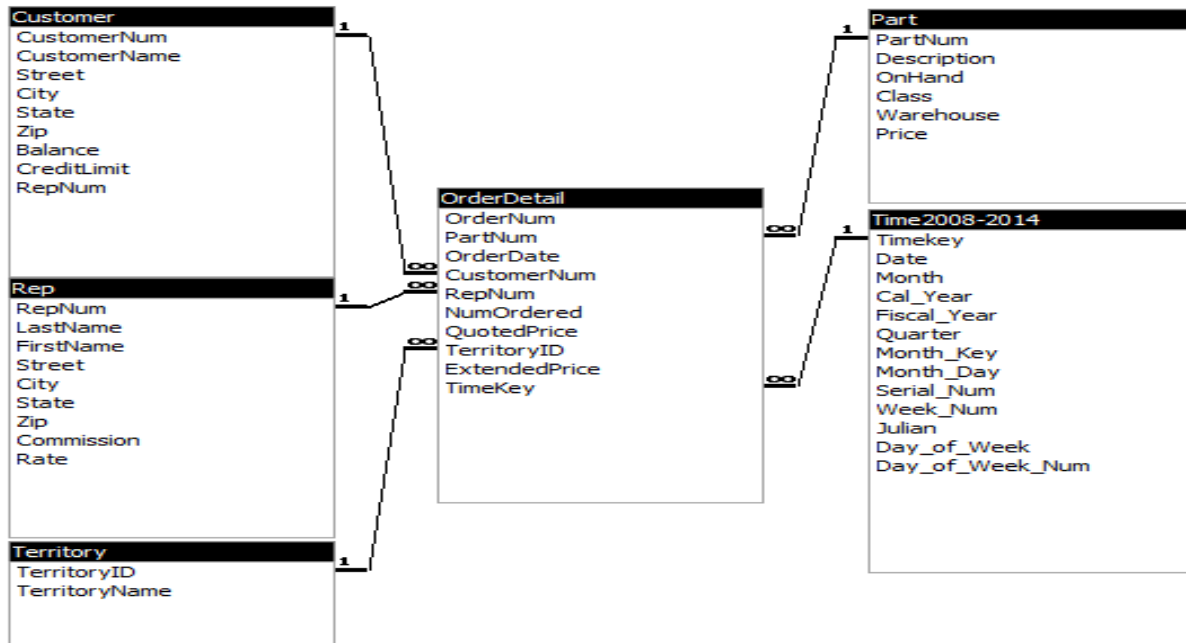(3NF) Territory [TeamID, TerritoryID]
Primary Keys: Bold and Underlined
Foreign Keys: Italicized and Bold

Data Warehouse Design

ERD of Star Schema/Relation Listing

Fact Table:

(1NF) OrderDetail [*OrderNum*, *PartNum*, *OrderDate*, *CustomerNum*, *RepNum*, NumOrdered, QuotedPrice, ExtendedPrice, *Time_Key TerritoryID*]

FK PartNum → Part

FK CustNum → Customer

FK RepNum → Rep

FK OrderDate → Time

Fk TerritoryID → Territory

Dimension Tables:

(3NF) Customer [**CustomerNum**, CustomerName, Street, City, State, Zip, Balance, CreditLimit, RepNum]

(3NF) Rep **[RepNum**, LastName, FirstName, Street, City, State, Zip, Commission, Rate]

(2NF) Time [**Time_key**, Date, Day_of_Week, Month, Cal_Year, Fiscal_Year, Quarter, Month_Key, Month_Day, Serial_Num, Week_Num, Julian, Day_of_Week_Num]
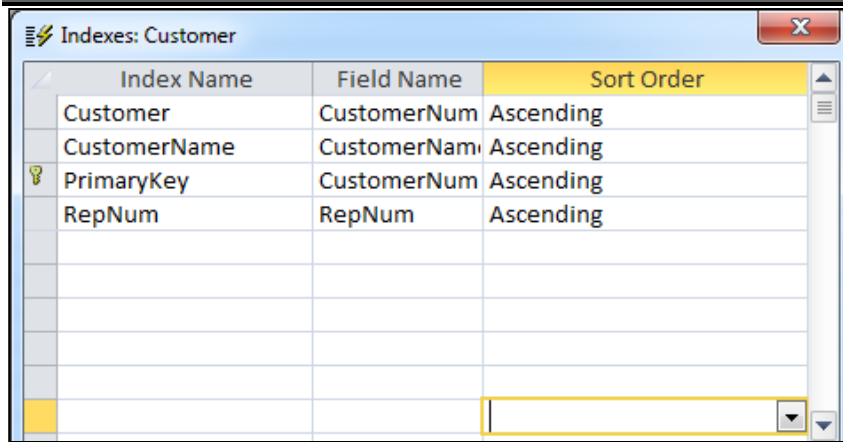
(3NF) Part [**PartNum**, Description, OnHand, Class, WareHouse, Price]

(3NF) Territory [**TeamID**, TerritoryID]

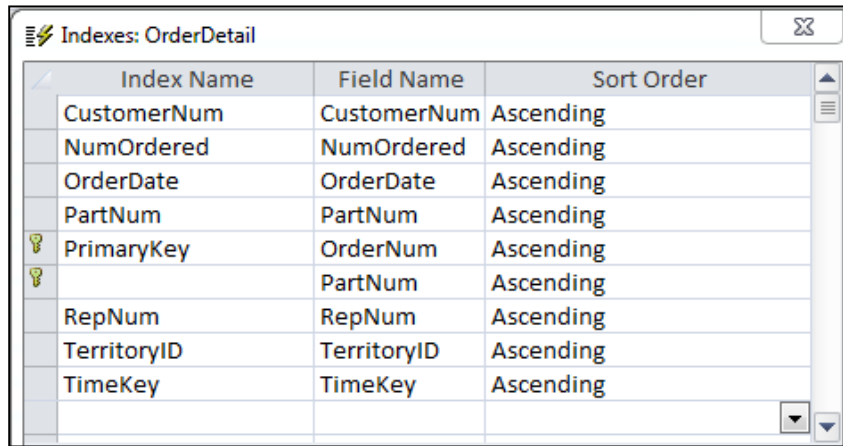**Primary Keys**: Bold and Underlined

Foreign Keys: Italicized and Bold

Index Pane For Customer/OrderDetail/Part Tables

Indexes: Customer

Index Name	Field Name	Sort Order
Customer	CustomerNum	Ascending
CustomerName	CustomerNam	Ascending
PrimaryKey	CustomerNum	Ascending
RepNum	RepNum	Ascending
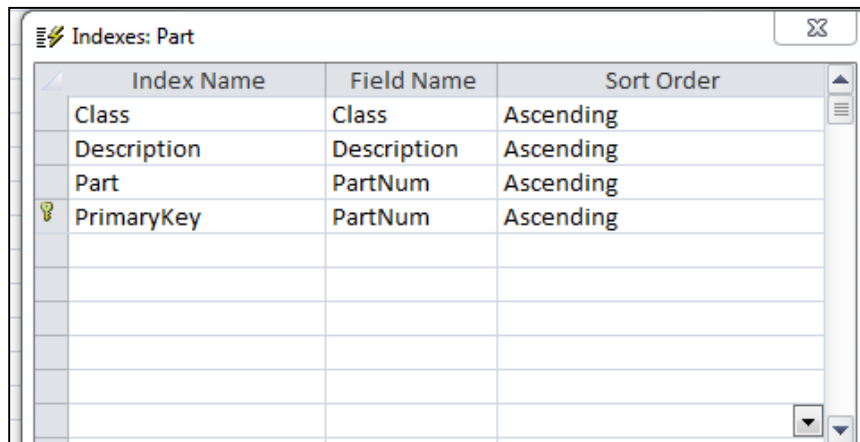
Customer Index:

Indexes: OrderDetail

Index Name	Field Name	Sort Order
CustomerNum	CustomerNum	Ascending
NumOrdered	NumOrdered	Ascending
OrderDate	OrderDate	Ascending
PartNum	PartNum	Ascending
PrimaryKey	OrderNum	Ascending
	PartNum	Ascending
RepNum	RepNum	Ascending
TerritoryID	TerritoryID	Ascending
TimeKey	TimeKey	Ascending

OrderDetail Index:
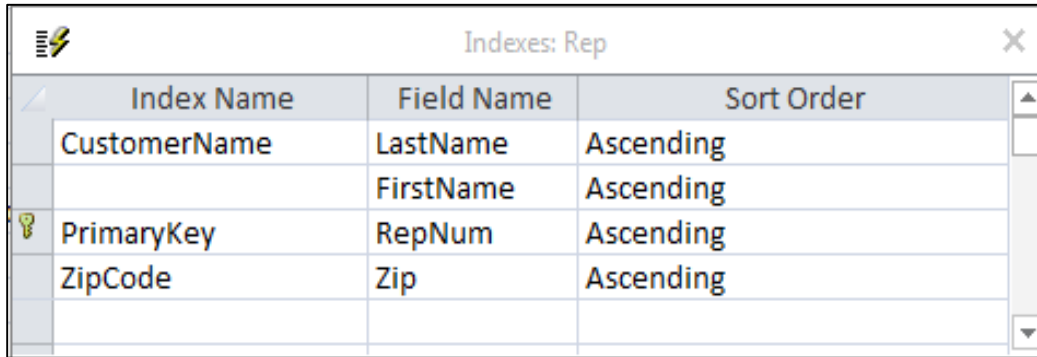
Indexes: Part

Index Name	Field Name	Sort Order
Class	Class	Ascending
Description	Description	Ascending
Part	PartNum	Ascending
PrimaryKey	PartNum	Ascending
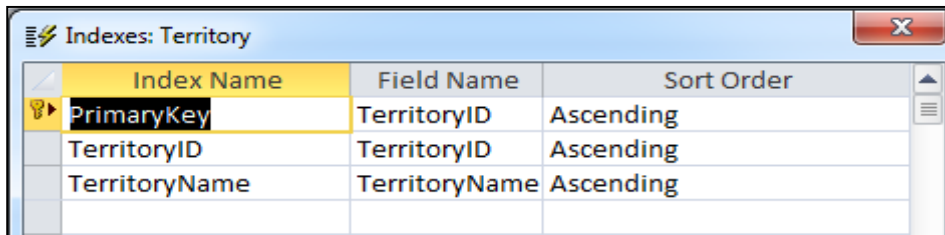
Part Index:

Index Pane For Rep/Territory/Time Table
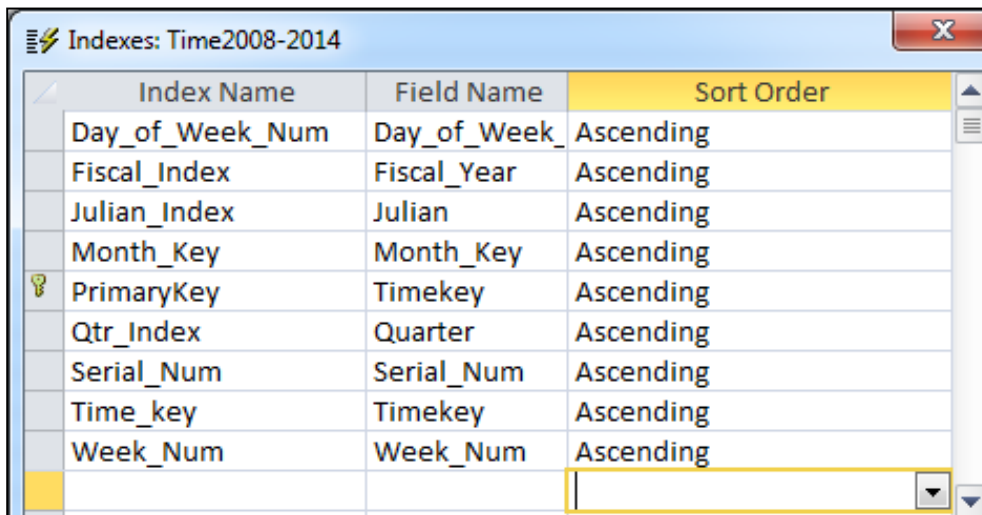
Index Name	Field Name	Sort Order
CustomerName	LastName	Ascending
	FirstName	Ascending
PrimaryKey	RepNum	Ascending
ZipCode	Zip	Ascending

Indexes: Rep

Rep Index:

Index Name	Field Name	Sort Order
PrimaryKey	TerritoryID	Ascending
TerritoryID	TerritoryID	Ascending
TerritoryName	TerritoryName	Ascending

Indexes: Territory

Territory Index:

Index Name	Field Name	Sort Order
Day_of_Week_Num	Day_of_Week_	Ascending
Fiscal_Index	Fiscal_Year	Ascending
Julian_Index	Julian	Ascending
Month_Key	Month_Key	Ascending
PrimaryKey	Timekey	Ascending
Qtr_Index	Quarter	Ascending
Serial_Num	Serial_Num	Ascending
Time_key	Timekey	Ascending
Week_Num	Week_Num	Ascending

Indexes: Time2008-2014

Time Index:

Table/Document/Analyzer

Properties

AlternateBackShade:	95	AlternateBackThemeColorIn	1
AlternateBackTint:	100	BackShade:	100
BackTint:	100	DatasheetForeThemeColorIn	0
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HideNewField:	False	LastUpdated:	11/21/2014 5:55:01 PM
NameMap:	Long binary data	OrderBy:	[Customer].[CustomerNum] DESC, [Customer].[Balance]
OrderByOn:	True	OrderByOnLoad:	True
Orientation:	Left-to-Right	PublishToWeb:	1
ReadOnlyWhenDisconnected	False	RecordCount:	527
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Updatable:	True		

Columns

Name	Type	Size
CustomerNum	Integer	2

AggregateType:	-1
AllowZeroLength:	False
AppendOnly:	False
Attributes:	Fixed Size
CollatingOrder:	General
ColumnHidden:	False
ColumnOrder:	1
ColumnWidth:	1752
CurrencyLCID:	0
DataUpdatable:	False
DecimalPlaces:	Auto
DisplayControl:	Text Box
Format:	0000
GUID:	{guid {29DE7BE9-237E-4AC5-8143-B990418F5093}}
OrdinalPosition:	0
Required:	True
ResultType:	0
SourceField:	CustomerNum
SourceTable:	Customer
TextAlign:	General

Name	Type	Size
CustomerName	Short Text	255

AggregateType:	-1
AllowZeroLength:	True
AppendOnly:	False
Attributes:	Variable Length
CollatingOrder:	General
ColumnHidden:	False
ColumnOrder:	Default
ColumnWidth:	2820
CurrencyLCID:	0

Transforms Maps(SQL) - Part

- Group 1 - INSERT INTO Part SELECT Part1.*FROM Part1;
- Group 4 - INSERT INTO Part SELECT Part2.*FROM Part2;
- Group 11 - INSERT INTO Part SELECT Part3.*FROM Part3;
- Group 15 - INSERT INTO Part SELECT Part4.*FROM Part4;
- Group 8 - INSERT INTO Part SELECT Part5.*FROM Part5;
- Group 14 - INSERT INTO Part SELECT Part5.*FROM Part5;
- Group 10- INSERT INTO Part SELECT Part5.*FROM Part5;
- Group 12- INSERT INTO Part SELECT Part5.*FROM Part5;
- Group 5 - INSERT INTO Part (PartNum, Description, OnHand, Class, Warehouse, Price) SELECT Part10.PartNum, Part10.Description, Part10.OnHand, Part10.Class, Part10.Warehouse, Part10.Price FROM Part10;

Transforms Maps(SQL)- Customer

- Group 1 - "INSERT INTO Customer SELECT Customer1.*FROM Customer1;"
- Group 4 - "INSERT INTO Customer SELECT Customer2.*FROM Customer2;"
- Group 13- "INSERT INTO Customer SELECT Customer3.*FROM Customer3;"
- Group 11 - "INSERT INTO Customer SELECT Customer4.*FROM Customer4;"
- Group 15 - "INSERT INTO Customer SELECT Customer5.*FROM Customer5;"
- Group 8 - "INSERT INTO Customer SELECT Customer6.*FROM Customer6;"
- Group 14 - "INSERT INTO Customer SELECT Customer7.*FROM Customer7;"
- Group 10 - "INSERT INTO Customer SELECT Customer8.*FROM Customer8;"
- Group 12 - "INSERT INTO Customer SELECT Customer9.*FROM Customer9;"
- Group 5 - "INSERT INTO Customer SELECT Customer10.*FROM Customer10;"

Transforms Maps(SQL) - Rep

- Group 1 - INSERT INTO Rep SELECT Rep1.* FROM Rep1;

- Group 4 - INSERT INTO Rep SELECT Rep2.* FROM Rep2;

- Group 13 - INSERT INTO Rep SELECT Rep3.* FROM Rep3;

- Group 11 - INSERT INTO Rep SELECT Rep4.* FROM Rep4;

- Group 15 - INSERT INTO Rep SELECT Rep5.* FROM Rep5;

- Group 8 –

Step 1

UPDATE Customer, OrderDetail, Rep SET Customer.RepNum = 210, OrderDetail.RepNum = 210, Rep.RepNum = 210 WHERE ((((Customer.RepNum)=20) AND ((OrderDetail.RepNum)=20) AND ((Rep.RepNum)=20));

- **This was to change FL rep, because rep 020 and rep 20 would cause duplication problems.**

Step 2 - INSERT INTO Rep SELECT Rep6.* FROM Rep6;

- Group 14 - INSERT INTO Rep SELECT Rep7.* FROM Rep7;

- Group 10 - INSERT INTO Rep SELECT Rep8.* FROM Rep8;

- Group 12 - INSERT INTO Rep SELECT Rep9.* FROM Rep9;

- Group 5 -

```
INSERT INTO Rep ( RepNum, LastName, FirstName, Street, City, State, Zip, Commission, Rate )
SELECT Rep10.RepNum, Rep10.LastName, Rep10.FirstName, Rep10.Street, Rep10.City, Rep10.State, Rep10.Zip, Rep10.Commission, Rep10.Rate
FROM Rep10;
```

Transforms Maps(SQL) - OrderDetail

- **Group 1** – General SQL used for all groups, with minor changing importing TerritoryID/TeamID and Time_Key/TimeKey.

  - **INSERT INTO OrderDetail (OrderNum, PartNum, TimeKey, OrderDate, CustomerNum, RepNum, NumOrdered, QuotedPrice, TerritoryID)SELECT OrderDetail1.OrderNum, OrderDetail1.PartNum, OrderDetail1.Time_key, OrderDetail1.OrderDate, OrderDetail1.CustomerNum, OrderDetail1.RepNum, OrderDetail1.NumOrdered, OrderDetail1.QuotedPrice, OrderDetail1.TeamIDFROM OrderDetail1;**

- **Group 10** - **No data entered for TeamID/TerritoryID**

Step 1:
```
DELETE OrderDetail8.TeamID
FROM OrderDetail8
WHERE (((OrderDetail8.TeamID)=6));
```

  - **(Removes Florida data, now we can focus on the blanks for TeamID)**

Step 2:
```
UPDATE OrderDetail8 SET OrderDetail8.TeamID = 10;
```

  - **With TeamID/TerritoryID fixed, the dataset can now be added successfully.**

Data Transformation Mapping Procedures Used

- Team #1 – Changed the data type for CustomerNum in OrderDetail/Customer table to number as a field size integer and the format to "0000". To do this, I removed the relationship between the Customer and OrderDetail table. Once the data type details were changed, the relationship was added back. Duplicate data (Florida data) was caught with each iteration and were not added, only new records were added.

- Team #14 – Had it where different customers had the exact same OrderNum, which would cause duplication problems in our database so we went in and separated each OrderNum out where a customer who made multiple orders on the same date would have the same OrderNum for each part they ordered. But, no two customers would have the same OrderNum.

- Team #5 – Had records in the OrderDetail table where the CustomerNum used didn't actually exist in the Customer table. For example, the bad data used in the column CustomerNum was between 500-534 in the OrderDetail table while CustomerNum in the Customer table ranged from 535 – 575. Customers 500-534 were added to the Customer table so the records could be successfully added.

Total Sales by Month Report (Subtotal by Year) HW#8

Total Sales By Month/Year

Year	Month	Total
2008		
	Jan	$52,735.24
	Feb	$15,712.31
	Mar	$10,774.06
	Apr	$10,115.15
	May	$8,038.19
	Jun	$13,625.79
	Jul	$2,596.99
	Aug	$3,266.34
	Sep	$13,137.18
	Oct	$3,177.49
	Nov	$2,897.78
	Dec	$23,332.64
	Year Total	$159,409.16
2009		
	Jan	$85,142.33
	Feb	$38,412.97
	Mar	$45,321.99
	Apr	$22,187.30
	May	$4,090.00
	Jun	$17,767.37
	Jul	$6,084.03
	Aug	$4,115.10
	Sep	$28,299.69
	Oct	$2,936.60
	Nov	$43,155.96

Year	Month	Total
2013		
	Jan	$190,265.57
	Feb	$2,478.86
	Mar	$15,913.22
	Apr	$6,386.93
	May	$26,373.42
	Jun	$3,670.16
	Jul	$14,475.85
	Aug	$2,133.99
	Sep	$5,308.29
	Oct	$9,159.62
	Nov	$8,806.34
	Dec	$199.92
	Year Total	$285,172.17
2014		
	Jan	$105,494.00
	Feb	$2,942.90
	Mar	$766.42
	Apr	$1,683.13
	May	$21,130.30
	Jun	$35,198.91
	Jul	$9,201.56
	Aug	$1,810.66
	Sep	$2,183.00
	Oct	$6,065.09
	Nov	$1,022.25
	Dec	$2,606.70
	Year Total	$190,104.92
	Grand Total:	$1,748,004.44

```
SELECT [Time2008-2014].Cal_Year, [Time2008-2014].Month, Sum(OrderDetail.ExtendedPrice) AS Total_Sales
FROM [Time2008-2014] INNER JOIN OrderDetail ON [Time2008-2014].Timekey = OrderDetail.TimeKey
GROUP BY [Time2008-2014].Cal_Year, [Time2008-2014].Month, [Time2008-2014].Month_Key
ORDER BY [Time2008-2014].Cal_Year, [Time2008-2014].Month_Key;
```
SQL

Total Sales by Customer by Month for 2014 Report HW#8

Total Sales by Customer by Month - 2014

Month	Customer Name	Total
Jan		
	CompUSA	$60,000.00
	Walmart	$15,000.00
	DealExtreme	$15,000.00
	Booze Appliance	$6,401.92
	Staples	$5,000.00
	Blue's Archery & Tackle	$794.97
	Cycling is Life	$750.00
	Office Depot	$700.00
	Zanders	$599.40
	Office Max	$450.00
	Target	$400.00
	Sony Style	$150.00
	SR Appliance Depot	$150.00
	Kayne East	$52.71
	Fry's Electronics	$45.00
	Month Total	$105,494.00
Feb		
	Porters Sporting Goods	$999.00
	Lafayette Shooter Wilderness	$899.95
	Rodenbaugh's Appliance	$512.97
	Hockey Player's Anonymous	$265.00
	Aderius Epps	$165.00
	Allen Sports	$70.95
	Bill Mercer	$30.03

Month	Customer Name	Total
	Pam Beasley	$11.94
	Month Total	$1,810.66
Sep		
	Indoor Recreation Co.	$1,450.00
	JC Penneys	$389.97
	Jackmerius Tacktheritrix	$251.28
	Walmart	$46.95
	Taylor;s Furniture and Appliances	$44.80
	Month Total	$2,183.00
Oct		
	Ashley Cunningham and Company	$5,319.81
	Timber Cove Heirlooms	$284.81
	Jims Sports	$179.10
	Antoinne Jimmerson	$146.00
	Dick Sports	$135.37
	Month Total	$6,065.09
Nov		
	Sports, Etc!	$899.50
	Blake Bean	$100.00
	Fit & Gym	$22.75
	Month Total	$1,022.25
Dec		
	Samuel's Cycle Shop	$1,159.90
	Terrance Johnson	$837.00
	Aderius Epps	$390.00
	Dow Furniture	$219.80
	Month Total	$2,606.70
	Grand Total:	$190,104.92

```
SELECT [Time2008-2014].Month, Customer.CustomerName, Sum(OrderDetail.ExtendedPrice) AS [Total Sales]
FROM [Time2008-2014] INNER JOIN (Customer INNER JOIN OrderDetail ON Customer.CustomerNum = OrderDetail.CustomerNum)
ON [Time2008-2014].Timekey = OrderDetail.TimeKey
GROUP BY [Time2008-2014].Month_Key, [Time2008-2014].Month, Customer.CustomerName, [Time2008-2014].Cal_Year
HAVING ((([Time2008-2014].Cal_Year)=2014))
ORDER BY [Time2008-2014].Month_Key, Customer.CustomerName;
```
SQL

Total Sales by Part by month for 2014 Report HW#8

Total Sales by Part by Month for 2014
Wednesday, Novem

Month	PartNum	Description	Total
Jan			
	F24	Small Blender	$60,000.00
	F3	Table	$60,000.00
	F8	Electric Stove Top	$60,000.00
	F13	Self Powered Coffee Maker	$60,000.00
	F13	Self Powered Coffee Maker	$60,000.00
	F18	Editble Processor	$60,000.00
	F23	Gas Stove Top	$18,240.00
	I141	Trash Compactors	$15,561.00
	F26	Medium Duty Blender	$15,050.00
	F15	Water Filter	$15,000.00
	F14	Wine Converter	$15,000.00
	F10	Trash Vaporizer	$15,000.00
	F21	Electric Oven	$15,000.00
	F5	Standalone Grill	$15,000.00
	F25	Heavy Duty Blender	$15,000.00
	F10	Trash Vaporizer	$15,000.00
	F20	Deep Freezer	$15,000.00
	F4	Microwave	$15,000.00
	F14	Wine Converter	$15,000.00
	F9	Dish Washer	$15,000.00
	N211	Aluminium	$8,903.00
	GS02	Speed Oven	$7,359.00
	I137	Double Door Fridge	$6,401.92
	F24	Small Blender	$5,600.00
	I201	Juicer	$5,063.76

GT34	Coil range	$449.00
KG78	Fitness Gear 8 - 40 lb Weighted Vest	$419.97
KR68	Patagonia Men's Insulated Better Sweater Full Zip Hoodie	$399.98
KL62	Dryer	$349.95
L009	compact blower	$300.00
I204	Hand Iron	$259.87
L124	Miter Saw	$240.00
I146	Electric Mixer	$219.80
N136	Shower Rods	$200.00
I136	Milk Frother	$199.92
L123	Power tool	$199.00
FD21	Stand Mixer	$159.95
L296	polisher	$135.00
N131	Electronic lock	$129.00
KW69	Nike Girls' Golf Skort	$110.00
L469	cordless rachet	$109.00
L972	diamond blade	$99.98
L036	belt sander	$90.00
L856	hammer drill	$90.00
N133	Steel	$75.00
AN10	Weight-Lifting Belt Medium	$71.90
L276	buffer	$50.00
AW04	8lb Dumbell	$37.00
AW01	2lb Dumbell	$10.00
	Month Total:	$102,904.94
	Grand Total:	$1,748,004.44

```
SELECT Part.PartNum, Part.Description, [Time2008-2014].Month_Key, [Time2008-2014].Month,
Sum(OrderDetail.ExtendedPrice) AS [Total Sales]
FROM [Time2008-2014] INNER JOIN (Part INNER JOIN OrderDetail
ON Part.PartNum = OrderDetail.PartNum) ON [Time2008-2014].Timekey = OrderDetail.TimeKey
GROUP BY Part.PartNum, Part.Description, [Time2008-2014].Month_Key,
[Time2008-2014].Month, [Time2008-2014].Cal_Year
ORDER BY [Time2008-2014].Month_Key;
```
SQL

Total Sales in 2008-2009 by RepName

Year	FullName	Total
2008		
	Albert Einstein	$15,000.00
	Aldin Read	$279.98
	Alexei Tempsta	$899.98
	Allene Goodrum	$300.00
	Andy Sandy	$200.00
	Angelica Radovich	$600.00
	Antonio Romo	$288.99
	Ari Sowell	$179.00
	Axel Rubio	$7,839.96
	Barney Johnson	$379.90
	Basile Temple	$6,599.98
	Ben Atwood	$1,984.95
	Benjamin Button	$113.98
	Beth Johnson	$25.98
	Bridgette Wright	$1,190.00
	Charles Xavier	$2,000.00
	Chelsea Hoffman	$37.90
	Chester Radner	$639.98
	Christopher Heckett	$192.10
	Clayton Grier	$1,538.97
	Dakota Westbrook	$372.96
	Dan McCarney	$747.00
	Dana Fitzgerld	$1,259.58
	Danny Glover	$277.95
	Dean Pappas	$123.52
	Krissy Nelson	$4,413.99
	LaMarcus Hicks	$245.00
	LeBron James	$119.90
	Lynn Johnson	$1,299.90
	Matt Damon	$5,850.00
	Mike Canales	$146.00
	Mike Grant	$210.00
	Mike Sorres	$179.10
	Misty Spurling	$8,441.10
	Morgan Cruz	$1,030.88
	Nick Quartaro	$100.00
	Obama Osamalama	$150.00
	Pamela Argyle	$12.00
	Pedro Martinez	$2,919.20
	Perry Carter	$555.00
	Richard Pryor	$366.36
	Ronna Wirt	$795.00
	Ruby Reyes	$23,334.21
	Scott Conley	$300.00
	Sloan Kotelchuk	$49.98
	Steve Urkel	$45.00
	Tran Hubbard	$2,080.00
	Tyler Connors	$219.80
	Valerie Kaiser	$284.81
	Veronica Smith	$979.89
	Zena Hubner	$882.75
Year Total		$190,104.92
Grand Total:		$1,748,004.44

```
SELECT [Time2008-2014].Cal_Year AS [Year], [Rep.FirstName] & " " & [Rep.LastName]
AS FullName, Sum(OrderDetail.ExtendedPrice) AS Total
FROM [Time2008-2014] INNER JOIN (Rep INNER JOIN OrderDetail
ON Rep.RepNum = OrderDetail.RepNum) ON [Time2008-2014].Timekey = OrderDetail.TimeKey
GROUP BY [Time2008-2014].Cal_Year, [Rep.FirstName] & " " & [Rep.LastName]
ORDER BY [Time2008-2014].Cal_Year, Sum(OrderDetail.ExtendedPrice) DESC;
```
SQL

Total Sales by Territory for 2010-14 HW#8

Total Sales by Territory for 2010-2014

Year	Territory Name	Total
2010		
	SW	$120,897.35
	NE	$68,675.68
	NW	$65,285.47
	SE	$3,732.32
	Year Total	$258,590.82
2011		
	SW	$185,020.90
	NW	$90,520.47
	NE	$8,781.15
	SE	$280.16
	Year Total	$284,602.68
2012		
	SW	$140,557.90
	NW	$56,188.11
	NE	$7,401.14
	SE	$522.27
	Year Total	$204,669.42
2013		
	SW	$188,859.86
	NW	$65,797.75
	NE	$15,743.73
	SE	$1,024.83
	Year Total	$271,426.17
2014		

SW	$117,327.90
NW	$81,459.20
NE	$7,493.79
SE	$597.03
Year Total	$206,877.92
Grand Total:	$1,226,167.01

Report

```
SELECT [Time2008-2014].Cal_Year AS [Year], Territory.TerritoryName AS [Territory Name], OrderDetail.ExtendedPrice AS Total
FROM [Time2008-2014] INNER JOIN (Territory INNER JOIN OrderDetail ON Territory.TerritoryID = OrderDetail.TerritoryID) ON [Time2008-2014].Timekey = OrderDetail.TimeKey
WHERE ((([Time2008-2014].Cal_Year)=2010 Or ([Time2008-2014].Cal_Year)=2011 Or ([Time2008-2014].Cal_Year)=2012 Or ([Time2008-2014].Cal_Year)=2013 Or ([Time2008-2014].Cal_Year)=2014))
ORDER BY [Time2008-2014].Cal_Year, Territory.TerritoryName, OrderDetail.ExtendedPrice DESC;
```

SQL

15

Total Sales by PartNum by Year (2014) HW#9

Total Sales by PartNum by Year(2014)

PartNum	Description	Total
F18	Editble Processor	$60,000.00
I140	Single Door Fridge	$18,014.40
F20	Deep Freezer	$15,000.00
F15	Water Filter	$15,000.00
I141	Trash Compactors	$8,333.25
I137	Double Door Fridge	$6,401.92
C001	Ultra Lube 5-Ga	$6,161.40
I139	Freezer	$5,400.00
I145	Convection Oven	$5,319.81
F13	Self Powered Coffee Maker	$5,000.00
C002	Schlage Keypad	$3,960.00
C014	Standard Treate	$2,380.00
C009	Kobalt 16-oz Sy	$2,183.94
C008	DuPont 14-oz Si	$2,178.91
C010	Prime Pressure	$2,060.40
C007	DuPont 4-oz Non	$1,980.00
C022	Prime Kiln-Drie	$1,979.70
C020	Kiln-Dried Whit	$1,485.00
KX35	Spyder Men's Revelstoke 3-in-1 Jacket	$1,450.00
P109	Metal Baseball Bat	$1,399.90
P107	Basketball Goal	$1,299.90
P115	Socks	$1,159.90
I142	Hot Plate	$1,030.88
R116	Folding Treadmill	$999.00
C025	Pine Dog-Ear Pr	$907.98

PartNum	Description	Total
MP03	Padlock	$52.71
MH65	Hooks	$50.94
L146	spindle sander	$50.00
L276	buffer	$50.00
AL72	Baseball Bat	$50.00
KU28	TYR Boys' Crossbone Challenger Board Shorts	$49.98
MR69	Rods	$49.44
F17	Power Plug Shredder	$45.00
I143	Electric Can Opener	$44.80
AN25	Weigh-Lifting Belt XLG	$39.99
AO19	5lb Barbell Disc	$37.90
AN10	Weight-Lifting Belt Medium	$35.95
MS01	Stripper	$32.97
MR94	Rollers	$32.67
AO65	50lb Barbell Disc	$30.95
MP23	Plunger	$30.03
AO34	20lb Barbell Disc	$25.95
MS22	Screws	$25.41
AZ09	Football	$25.00
AW05	10lb Dumbell	$22.75
C005	WD-40 8-oz Smar	$21.95
AO23	10lb Barbell Disc	$20.95
AW01	2lb Dumbell	$20.00
AL84	Basketball Net	$16.00
AL82	Ball Bag	$12.00
MS65	Stopper	$11.94
AZ93	Golf Balls 3-Ct	$11.50
Grand Total:		**$190,104.92**

```sql
SELECT Part.PartNum, Part.Description, Sum(OrderDetail.ExtendedPrice) AS Total
FROM [Time2008-2014] INNER JOIN (Part INNER JOIN OrderDetail ON Part.PartNum = OrderDetail.PartNum)
ON [Time2008-2014].Timekey = OrderDetail.TimeKey
GROUP BY Part.PartNum, Part.Description, [Time2008-2014].Cal_Year
HAVING ((([Time2008-2014].Cal_Year)=2014))
ORDER BY Sum(OrderDetail.ExtendedPrice) DESC;
```

SQL

Total Sales by RepName by Year 2012-2014 HW#9

Total Sales by RepName by Year(2012-2014)

Year	FullName	Total
2012		
	Albert Einstein	$105,000.00
	Matt Damon	$11,700.00
	Dana Fitzgerld	$8,016.10
	Shannon Dodson	$5,397.00
	Steve Urkel	$5,045.00
	Bridgette Wright	$4,887.28
	Tran Hubbard	$4,784.80
	Ruby Reyes	$4,498.00
	Charles Xavier	$4,000.00
	Clayton Grier	$3,757.00
	Zena Hubner	$3,630.60
	Pedro Martinez	$3,209.86
	Krissy Nelson	$3,074.90
	Georgeanna Koger	$2,884.85
	John Skladany	$2,780.00
	Antonio Romo	$2,195.89
	Misty Spurling	$1,850.85
	Ronna Wirt	$1,630.26
	Ennis Joung	$1,599.92
	Debbie Brown	$1,598.40
	Angelica Radovich	$1,441.98
	James Williamson	$1,400.00
	Jaimee Rux	$1,399.98
	John Smith	$1,353.00

Name	Total
Mike Grant	$210.00
Don Raper	$199.98
Mike Sorres	$179.10
Axel Rubio	$165.00
Katie Hurd	$159.00
Carl Junior	$150.00
Obama Osamalama	$150.00
Mike Canales	$146.00
Beth Johnson	$135.37
LeBron James	$119.90
Debbie Brown	$112.29
Gayle Kelly	$110.94
Frank Caliendo	$110.58
Nick Quartaro	$100.00
Grace Wilson	$69.70
Israa Babiker	$57.90
Jim Gaffigan	$52.71
Jessica Gomez	$50.95
Sloan Kotelchuk	$49.98
Steve Urkel	$45.00
Christopher Heckett	$35.95
Bob Saget	$30.03
David Letterman	$25.41
Pamela Argyle	$12.00
Jerry Seinfield	$11.94
Jeffrey Sucher	$11.50
Year Total	$190,104.92
Grand Total:	$676,610.51

```
SELECT [Time2008-2014].Cal_Year AS [Year], [Rep.FirstName] & " " & [Rep.LastName]
AS FullName, Sum(OrderDetail.ExtendedPrice) AS Total
FROM [Time2008-2014] INNER JOIN (Rep INNER JOIN OrderDetail ON Rep.RepNum = OrderDetail.RepNum)
ON [Time2008-2014].Timekey = OrderDetail.TimeKey
GROUP BY [Time2008-2014].Cal_Year, [Rep.FirstName] & " " & [Rep.LastName]
HAVING ((([Time2008-2014].Cal_Year)=2012 Or ([Time2008-2014].Cal_Year)=2013
Or ([Time2008-2014].Cal_Year)=2014))
ORDER BY [Time2008-2014].Cal_Year, Sum(OrderDetail.ExtendedPrice) DESC;
```
SQL

Total Sales by CustomerName by Year (2011)

Customer Name	Total
Friedmans Appliance	$60,000.00
Sierra Select	$23,136.00
Amber Outlet	$17,980.00
IKEA	$15,000.00
Sears	$15,000.00
Delta Appliance	$14,219.82
Strand Service Appliance	$11,894.40
Unadrill Inc.	$8,990.00
Otis Inc	$8,903.00
Done Right Electric	$8,903.00
John's Fix It	$8,903.00
Pearson's Appliamce Sales	$6,598.50
Rancho Grande Appliance	$6,239.98
Brawn Works	$5,744.00
Oliver Dyer's Appliance	$5,000.00
Randy's Sporting equipment	$4,999.00
VMWARE INC	$4,760.00
Redlab Co.	$4,599.00
RedWare	$4,596.00
Lima Sports	$4,500.00
General Products	$3,698.00
Elit Company	$3,598.00
Sage General	$3,234.00
ASAP Plumbing	$3,234.00
Premier Plumbing	$3,234.00
Allen & Son Electric	$43.00
Gold's Gym	$40.00
D'Marcus Williums	$39.76
Bruno Venus	$39.74
Big Johns	$37.97
O'Donnell's	$37.90
Wayne Sporting Supplies	$36.00
LA Fitness	$35.95
D'Squarius Green	$35.94
Flaxon Waxon	$35.14
Xmus Jaxon	$33.96
Southwest Sports	$30.00
Ultimate Sporting Goods	$29.95
Southwest Sports	$28.75
Kayne East	$27.94
Walmart	$25.95
Ruidoso ISD	$25.00
Sporting Goods Suppliers	$23.96
Fitmiss	$22.75
Nigel Whippey	$20.02
Ron Balakay	$19.74
Home Run Sports	$17.98
Fitmiss	$16.00
Dan Smith	$15.96
Marshall Lynch	$11.96
Wayne Sporting Supplies	$10.00
Sports Depot	$10.00
Grand Total:	**$329,224.73**

```
SELECT Customer.CustomerName, OrderDetail.ExtendedPrice
FROM [Time2008-2014] INNER JOIN (Customer INNER JOIN OrderDetail ON
Customer.CustomerNum = OrderDetail.CustomerNum) ON [Time2008-2014].Timekey = OrderDetail.TimeKey
GROUP BY Customer.CustomerName, OrderDetail.ExtendedPrice, [Time2008-2014].Cal_Year
HAVING ((([Time2008-2014].Cal_Year)=2011))
ORDER BY OrderDetail.ExtendedPrice DESC , [Time2008-2014].Cal_Year;
```
SQL

Total Sales by Territory by State by Year 2006-2010 HW#9

Total Sales by Territory by State by Year(2006-2010)

Year	Territory	State Name	Total
2008			
	NW	Maine	$60,067.88
	SW	Arizona	$26,900.00
	SW	Louisiana	$20,999.78
	NE	Florida	$17,421.55
	SW	Missouri	$12,359.84
	NW	Kansas	$7,189.12
	NW	Washington	$7,112.66
	SE	Idaho	$2,786.75
	NE	Texas	$2,382.38
	NW	Nebraska	$1,691.00
	NW	New Mexico	$498.20
		Year Total	$159,409.16
2009			
	NW	Maine	$154,132.14
	SW	Arizona	$78,030.00
	NE	Florida	$36,596.92
	SW	Louisiana	$22,487.65
	SW	Missouri	$18,718.80
	NW	Washington	$12,737.73
	NW	Kansas	$9,381.71
	NE	Texas	$4,598.26
	SE	Idaho	$1,402.72
	NW	Nebraska	$1,243.00
	NW	New Mexico	$606.34

Year	Territory	State Name	Total
		Year Total	$339,935.27
2010			
	NE	Florida	$58,864.74
	NW	Maine	$49,550.34
	SW	Missouri	$44,557.76
	SW	Arizona	$30,710.99
	SW	Louisiana	$25,511.60
	NE	Texas	$9,810.94
	NW	Washington	$7,878.82
	NW	Kansas	$5,724.38
	SW	Nevada	$4,258.00
	SE	Idaho	$3,732.32
	NW	Nebraska	$1,487.98
	NW	New Mexico	$643.95
		Year Total	$242,731.82
		Grand Total:	$742,076.25

```
SELECT Territory.TerritoryName AS Territory, Territory.[State Name],
[Time2008-2014].Cal_Year, Sum(OrderDetail.ExtendedPrice) AS Total
FROM Territory INNER JOIN ([Time2008-2014] INNER JOIN OrderDetail ON
[Time2008-2014].Timekey = OrderDetail.TimeKey) ON Territory.TerritoryID = OrderDetail.TerritoryID
GROUP BY Territory.TerritoryName, Territory.[State Name], [Time2008-2014].Cal_Year
HAVING ((([Time2008-2014].Cal_Year) Between 2006 And 2010))
ORDER BY [Time2008-2014].Cal_Year, Sum(OrderDetail.ExtendedPrice) DESC;
```
SQL

Total Sales by Rep by Quarter

Year	Quarter	Full Name	Total
2013	1		
		Albert Einstein	$60,000.00
		Albert Einstein	$15,000.00
		Howie Hubler	$8,903.00
		Matt Damon	$5,000.00
		John Rusnak	$3,234.00
		John Smith	$3,000.00
		Steve Urkel	$2,500.00
		Chester Radner	$2,249.95
		Charles Xavier	$2,000.00
		Boaz Weinstein	$1,234.00
		John Smith	$799.99
		James Williamson	$700.00
		LeBron James	$695.94
		LeBron James	$649.95
		John Smith	$600.00
		LeBron James	$461.93
		Matt Damon	$450.00
		Scott Conley	$450.00
		Antonio Romo	$415.84
		Matt Damon	$400.00
		Perry Carter	$398.00
		John Skladany	$360.00
		Dakota Westbrook	$307.68
		David Letterman	$300.00

Year	Quarter	Full Name	Total
		Axel Rubio	$165.00
		Dan McCarney	$150.00
		Clayton Grier	$44.80
		Gayle Kelly	$39.99
		Grace Wilson	$30.95
		David Letterman	$25.41
		Israa Babiker	$20.00
		Grace Wilson	$16.00
		Jerry Seinfield	$11.94
		Quarter Summary:	$13,195.22
2014	4		
		Ruby Reyes	$5,319.81
		Benjamin Button	$1,159.90
		Pedro Martinez	$899.50
		John Skladany	$597.00
		Perry Carter	$300.00
		Valerie Kaiser	$284.81
		John Skladany	$240.00
		Tyler Connors	$219.80
		Mike Sorres	$179.10
		Beth Johnson	$135.37
		Perry Carter	$90.00
		Mike Canales	$86.00
		Mike Canales	$60.00
		Nick Quartaro	$50.00
		Grace Wilson	$22.75
		Quarter Summary:	$9,644.04
		Grand Total:	$364,532.09

```
SELECT [Time2008-2014].Cal_Year, [Time2008-2014].Quarter, [Rep.FirstName] & " " & [Rep.LastName] AS FullName, OrderDetail.ExtendedPrice
FROM [Time2008-2014] INNER JOIN (Rep INNER JOIN OrderDetail ON Rep.RepNum = OrderDetail.RepNum) ON [Time2008-2014].Timekey = OrderDetail.TimeKey
GROUP BY [Time2008-2014].Cal_Year, [Time2008-2014].Quarter, [Rep.FirstName] & " " & [Rep.LastName], OrderDetail.ExtendedPrice
HAVING ((([Time2008-2014].Cal_Year)=2013 Or ([Time2008-2014].Cal_Year)=2014))
ORDER BY [Time2008-2014].Cal_Year, [Time2008-2014].Quarter, OrderDetail.ExtendedPrice DESC;
```

SQL

Hierarchy Chart/Screen Prints for Premiere Products Switchboard Menu

Main

A. Maintenance

B. Produce Reports

c.) Close DB/DW

Maintenance

A. OrderDetail

B. Time 2008-2014

C. Rep

D. Customer

E. Part/Inventory

F. Team/Inventory

G. Main

Reports

A. Customer

B. Rep

C. Part

D. Territory

E. Main

Close DB

Main

- Maintenance
- Reports
- Close DB

Maintenance

- OrderDetail
- Time/Date 2008-14
- Rep
- Customer
- Part/Inventory
- Team/Territory
- Main

Reports

- Customer Reports
- Rep Reports
- Part Reports
- Territory Reports
- Main