

Pine Valley Furniture Company Databases

The *Modern Database Management* web sites for both instructors and students contain two versions (called 'Book' and 'Expanded') of Pine Valley Furniture Company (PVFC), based on Figure 2-22 of the textbook. This figure shows a subset of the attributes available in the databases.

The files for the book version, covered here, contains the tables of Figure 2-22, along with much of the sample data used in Chapter 1, 5, and 6. The tables and data are stored in five ways.

1. *There is an MS Access version.* Use of this version requires that MS Access or later be loaded and operational on a computer. Copy the file **PVFC_MDM_13e.mdb** to the hard drive and open the file. This version also includes the MS Access queries that match most of the SQL queries demonstrated in Chapters 5 and 6. You may convert the file to the current version of Access you are using.
2. *There is an Oracle 13c version.* An SQL script to create the tables and populate them in Oracle 13c is also included. Use of this script assumes access to Oracle 11g and SQL*Plus 3.3 (or later, or a recent version of Oracle's SQL Developer), and authorization to create tables. Move the **CREATEPVFC_MDM_13e.sql** script to the hard drive. After entering SQL*Plus, at the SQL prompt type **Start X:\CREATEPVFC_MDM_13e.sql**, where X indicates the location of the SQL script. Pressing enter should cause the script to run, creating the tables and populating them. If you have SQL Server Management Studio or SQL Server Management Studio Express installed, this file, with its .sql extension, may be identified as a SQL Server file. However, it will not run under SQL server, because it uses Oracle syntax.
3. *There is a SQL Server 2005 version.* The CREATE and INSERT scripts are zipped in a file named **PVFScripts_MDM_13e.zip**. The database can be created with a script called **PVFDB_MDM_13e.sql**. Please make sure that you update the CREATE DATABASE command so that it refers to the correct location in your local environment.
4. *There is a comma-delimited, flat-file, ASCII version* in one zipped file, **PVFC-ASC_MDM_13e.ZIP**. These flat files are provided for use with other database management systems. They may also be imported into MS Excel.
5. *The database is also available on Teradata University Network* (www.teradatauniversitynetwork.com) for faculty and students.

This textbook version of PVFC implements the data model depicted in Figure 2-22. The data contained in the tables are only that data used in the examples in Chapters 1, 5, and 6 to demonstrate SQL. Thus, the student may set up the database(s) and use them to compare MS Access SQL, SQL Server 2008 SQL and Oracle 12c SQL to the ANSI SQL examples of the text. Many of the queries demonstrated in Chapters 5 and 6 have been created in the MS Access version and are available in PVFC_MDM_13e.mdb (the query names end with the page number to help you find where the query is presented in the text).

This database is intended to provide students with an understanding of the implementation of the data model developed in Chapter 2 in a relational database management system. It should also allow them to explore basic query syntax in either Oracle 12c or MS Access.

Both versions of the PVFC database are also available on Teradata University Network (www.teradatauniversitynetwork.com for faculty and students). Faculty must define on Teradata University Network which databases students can use because our databases are not the only ones available on TUN. See instructions on TUN for creating a course environment for students.

The following documentation provides a more detailed explanation of the data in the Book version of the PVFC database – the version illustrated in the textbook.

Book Pine Valley Furniture Company (PVFC) Datasets

The following ASC files are provided for this database (in folder PVFC-ASC_MDM_13e):

Customer_T.asc

CustomerID, CustomerName, CustomerAddress, CustomerCity, CustomerState, CustomerPostalCode

- 1, 'Contemporary Casuals', '1355 S Hines Blvd', 'Gainesville', 'FL', '32601-2871'
- 2, 'Value Furniture', '15145 S.W. 17th St.', 'Plano', 'TX', '75094-7743'
- 3, 'Home Furnishings', '1900 Allard Ave.', 'Albany', 'NY', '12209-1125'
- 4, 'Eastern Furniture', '1925 Beltline Rd.', 'Carteret', 'NJ', '07008-3188'
- 5, 'Impressions', '5585 Westcott Ct.', 'Sacramento', 'CA', '94206-4056'
- 6, 'Furniture Gallery', '325 Flatiron Dr.', 'Boulder', 'CO', '80514-4432'
- 7, 'Period Furniture', '394 Rainbow Dr.', 'Seattle', 'WA', '97954-5589'
- 8, 'California Classics', '816 Peach Rd.', 'Santa Clara', 'CA', '96915-7754'
- 9, 'M and H Casual Furniture', '3709 First Street', 'Clearwater', 'FL', '34620-2314'
- 10, 'Seminole Interiors', '2400 Rocky Point Dr.', 'Seminole', 'FL', '34646-4423'
- 11, 'American Euro Lifestyles', '2424 Missouri Ave N.', 'Prospect Park', 'NJ', '07508-5621'
- 12, 'Battle Creek Furniture', '345 Capitol Ave. SW', 'Battle Creek', 'MI', '49015-3401'
- 13, 'Heritage Furnishings', '66789 College Ave.', 'Carlisle', 'PA', '17013-8834'
- 14, 'Kaneohe Homes', '112 Kiowai St.', 'Kaneohe', 'HI', '96744-2537'
- 15, 'Mountain Scenes', '4132 Main Street', 'Ogden', 'UT', '84403-4432'

Territory_T.asc

TerritoryID, TerritoryName

1, 'SouthEast'
2, 'SouthWest'
3, 'NorthEast'
4, 'NorthWest'
5, 'Central'

DoesBusinessIn_T.asc

CustomerID, TerritoryID

1, 1
1, 2
2, 2
3, 3
4, 3
5, 2
6, 5

Salesperson_T.asc

SalespersonID, SalespersonName, SalespersonPhone, SalespersonFax, TerritoryID

1, 'Doug Henny', '8134445555', '', 1
2, 'Robert Lewis', '8139264006', '', 2
3, 'William Strong', '5053821212', '', 3
4, 'Julie Dawson', '4355346677', '', 4
5, 'Jacob Winslow', '2238973498', '', 5

Employee_T.asc

EmployeeID, EmployeeName, EmployeeAddress, EmployeeCity, EmployeeState, EmployeeZipCode, EmployeeDateHired, EmployeeSupervisor

'123-44-345', 'Jim Jason', '2134 Hilltop Rd', '', 'TN', '', '12/Jun/99', '454-56-768'
'454-56-768', 'Robert Lewis', '17834 Deerfield Ln', 'Nashville', 'TN', '', '01/Jan/99', ''

Skill_T.asc

SkillID, SkillDescription

'BS12', '12in Band Saw'
'QC1', 'Quality Control'
'RT1', 'Router'
'SO1', 'Sander-Orbital'
'SB1', 'Sander-Belt'
'TS10', '10in Table Saw'
'TS12', '12in Table Saw'
'UC1', 'Upholstery Cutter'
'US1', 'Upholstery Sewer'
'UT1', 'Upholstery Tacker'

EmployeeSkills_T.asc

EmployeeID, SkillID

'123-44-345', 'BS12'
'123-44-345', 'RT1'
'454-56-768', 'BS12'

Order_T.asc

OrderID, OrderDate, CustomerID

1001, '21/Oct/18', 1
1002, '21/Oct/18', 8
1003, '22/Oct/18', 15
1004, '22/Oct/18', 5
1005, '24/Oct/18', 3
1006, '24/Oct/18', 2
1007, '27/Oct/18', 11
1008, '30/Oct/18', 12
1009, '05/Nov/18', 4
1010, '05/Nov/18', 1

ProductLine_T.asc

ProductLineID, ProductLineName

1, 'Cherry Tree'
2, 'Scandinavia'
3, 'Country Look'

Product_T.asc

ProductID, ProductDescription, ProductFinish, ProductStandardPrice, ProductLineID

1, 'End Table', 'Cherry', 175, 1
2, 'Coffee Table', 'Natural Ash', 200, 2
3, 'Computer Desk', 'Natural Ash', 375, 2
4, 'Entertainment Center', 'Natural Maple', 650, 3
5, 'Writers Desk', 'Cherry', 325, 1
6, '8-Drawer Desk', 'White Ash', 750, 2
7, 'Dining Table', 'Natural Ash', 800, 2
8, 'Computer Desk', 'Walnut', 250, 3

OrderLine_T.asc

OrderID, ProductID, OrderedQuantity

1001, 1, 2
1001, 2, 2
1001, 4, 1
1002, 3, 5
1003, 3, 3
1004, 6, 2
1004, 8, 2
1005, 4, 4
1006, 4, 1
1006, 5, 2
1006, 7, 2
1007, 1, 3
1007, 2, 2
1008, 3, 3
1008, 8, 3
1009, 4, 2
1009, 7, 3
1010, 8, 10

ProducedIn_T.asc

ProductID, WorkCenterID

RawMaterial_T.asc

MaterialID, MaterialName, UnitOfMeasure, MaterialStandardCost

Supplies_T.asc

VendorID, MaterialID, SuppliesUnitPrice

Vendor_T.asc

VendorID, VendorName, VendorAddress, VendorCity, VendorState, VendorZipcode

General Notes on ASC and Other Versions of the PVFC Book Datasets:

1. There may be several misspellings of data values so students can deal with data quality issues.
2. There are several examples of missing data so students can deal with this issue (some data are actually missing, some simply represents null FKs for an optional cardinality).
3. The ProducedIn_T table is included, but it includes a FK of WorkCenterID, and WorkCenter_T is not included; there is no data in ProducedIn_T, but there still is an unresolved FK constraint reference for students to deal with.
4. Four tables are not populated with data (see above), but ASC files are provided with the column names; these tables can be used for exercises with INSERT and other commands.
5. Three tables (Uses_T, WorksIn_T, and WorkCenter_T) are not included; these can be used for DDL exercises and students can determine from the text what columns should be included in each table.
6. There are purposeful differences between this ASC dataset and other versions of this data:
 - a. Oracle: All DDL and data creation statements are in one compressed file, CREATEPVFC_MDM_13e.sql:
 - i. Employee_T includes an EmployeeBirthDate column
 - ii. There are additional columns in Vendor_T
 - iii. Two rows for WorkCenter_T and one row for WorksIn_T are provided
 - iv. Uses_T is defined but no data are provided

- b. SQL Server: Three files are in compressed folder PVFCScripts_MDM_13e – PVTableInsertsALL_MDM_13e.sql , PVTablesALL_MDM_13e.sql, and PVFDB_MDM_13e.sql:
- There are no data for the RawMaterials_T, Vendor_T, Supplies_T, ProducedIn_T, and Uses_T, although all are defined in the database.
 - PKs are auto created on insert for many of the tables, so PKs may not agree with those in the other data files; Order_T does include the OrderID column with data as in the other versions of this table.
 - Two rows are provided for WorkCenter_T and one row for WorksIn_T.
- c. Access Database: File PVFC_MDM_13e.mdb
- There are no data for the RawMaterials_T, Vendor_T, Supplies_T (actually contains one bad row with data in only one nonPK column), ProducedIn_T, and Uses_T, although all are defined in the database.
 - Some columns have captions, so the column heading may not be exactly the column name.
 - Two rows are provided for WorkCenter_T and one row for WorksIn_T

The following table summarizes the differences between the various versions of the PVFC Book database version:

Table	Figure 2-22	ASCII	Oracle	MS Access	MS SQL	TUN
Customer_T			CutomerPostalCode is VARCHAR2(10)			CustomerPostalCode is VARCHAR(10)
DoesBusinessIn_T						
Employee_T			Has EmployeeBirthDate attribute that is not in ASCII version			
EmployeeSkills_T	Called Has Skill					
Order_T						
OrderLine_T			ProductID is NUMBER(11,0)			
ProducedIn_T		No data	No data	No data	No data	No data
Product_T			ProductLineID is NUMBER(11,0)			
ProductLine_T						
RawMaterial_T		No data	No data	No data	No data	No data; UnitofMeasure is MaterialUnitofMeasure

Salesperson_T						
Skill_T						
Supplies_T		No data	No data	No data	No data	No data
Territory_T						
Vendor_T		No data	No data; Has VendorFax, VendorPhone, VendorContact, VendorTaxID attributes that are not in ASCII version	No Data	No data	No data; Has VendorFax, VendorPhone, VendorContact, VendorTaxID attributes that are not in ASCII version
Uses_T		Not included	No data	No data	No data	Not included
WorkCenter_T		Not included	Has two data rows	Has two data rows	Has two data rows	Not included
WorksIn_T		Not included	Has one data row	Has one data row	Has one data row	Not included
Database overall				Not all PK and FK constraints and required attributes specified; Relationships diagram does not show all relationships		Database is named db_pvfc_mdm_13_std; FK constraints are not specified; datatypes are sometimes slightly different, but the data are the same