

Expanded Pine Valley Furniture Company Database

Background

The *Modern Database Management, 13e* Web sites for both students and faculty contain an expanded version of Pine Valley Furniture Company. This database is provided in three formats: one in Microsoft Access (in file BigPVFC_MDM_13e.zip), another is in ASCII data files (in BIGPVFC-ASC_MDM_13e.zip) to load into other DBMSs; a third version is Oracle (in BigOracle_MDM_13e.zip); a fourth version is available on www.teradatauniversitynetwork.com for faculty and students (see the inside front cover of the text for details). ***Dates in the Order, Payment, and Shipped tables have been updated from those shown in screen captures in this document.***

The following explains some important features of this database and differences between the different versions:

- Two of the tables have a large number of rows: Supplies_T and RawMaterial_T each have 2864 rows. These tables give users an opportunity to consider performance improvements to the database using indices and other means available within the DBMS.
- The **Microsoft Access** version has some special differences:
 - There are product photos associated with several of the rows in the Product_T table.
 - There are three more rows in the Order_T table than are in the ASCII table of this database.
 - Access uses captions for the display of some attributes, so the names of columns in displays may be different than the attribute names; also, the

DoesBusinessIn_T table uses lookups to display descriptive names for the FKs in this table.

- The Salesperson_T has an identifier of SalespersonID which has datatype of auto; the ASCII version does not include a SalespersonID attribute.
- The **Oracle** database has some special differences:
 - PK, FK, and NOT NULL constraints are defined, with the following exceptions: FK constraint for Supervises unary relationship on the Employee entity.
 - There is no Misc_T table that is present in the ASCII data set.
 - The Salesperson_T table has an attribute of SalespersonID (which is also the primary key) which has a datatype of Number(4); the ASCII version does not include a SalespersonID attribute.
 - The ShipDirections column in the CustomerShipAddress_T table is Varchar(100), not 255 characters as it is in the other data sets.
 - The VendorPhone and VendorFax columns in the Vendor_T table are Varchar2(12), not 10 characters as they are in the other data sets.
 - Many of the character columns in the RawMaterial_T table are shorter in length than they are in the Access database.
 - There are three more rows in the Order_T table than are in the ASCII table of this database.
- The database stored on **Teradata University Network** has some special differences:

- There are no FKs or PKs implemented. There are primary indexes (used for placing rows across the storage structure used by Teradata). Thus, there is no enforcement of PK or FK constraints. Because students can copy the read-only database into their own work (perm) space, student can be given an exercise to add in these constraints to their own copy of the database.
- There is no Misc_T table that is present in the ASCII data set.
- The Salesperson_T table has an attribute of SalespersonID (which is also the primary index field) which has a datatype of Integer; the ASCII version does not include a SalespersonID attribute.
- In the RawMaterial_T table, MaterialID is Varchar(12) and the MaterialName is VarChar(30), which are different lengths than in the Access database.