Database Management System

Show table structure (*.tdf file)

Content

- Function
- Design
- Implementation

Copyright Declaration

Function

This function includes **read *.tdf file** and **display table structure**. Read all table definition information in the the "Ruanko" database, and display to tree view CDBView and list view CTableView.

1. Read *.tdf file

Read table description information from the "Ruanko.tb" file, and find table definition file .tdf). From. Then read table definition information from ".tdf" file, and display in the tree view.

Input

Click the menu "database -> open database" , and enter the default database name "Ruanko".

Process

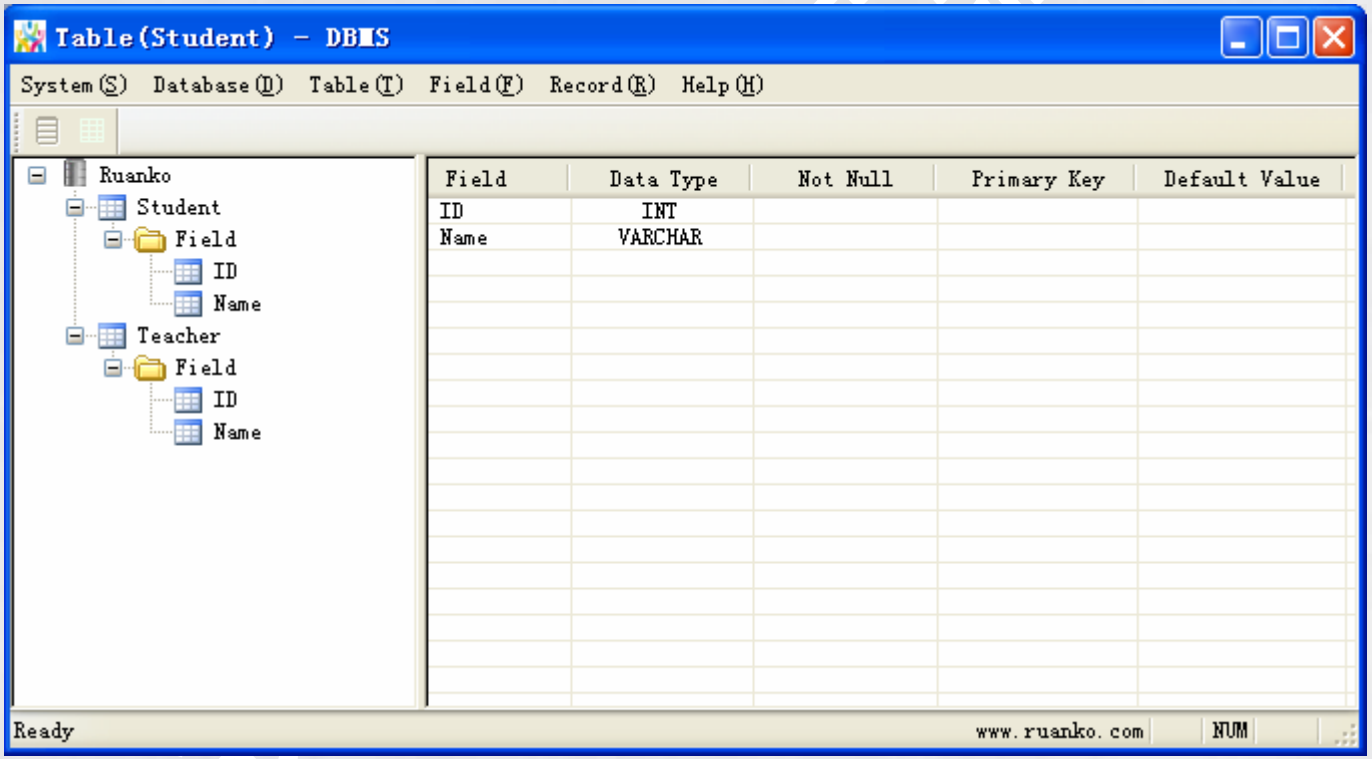
Read the table structure information from table description file "Ruanko.tb" and table definition file (.tdf).

Output

Display all of the tables names and the field names in the table in the **tree view** CDBView.

2. Display table structure

Select a table in the **tree view** CDBView, click on the **menu** "table-> modify table". Query related table information entity according to the name of the table, then display all the fields information in the **list view** CTableView.



Design

Iterative development based on the "define table structure".

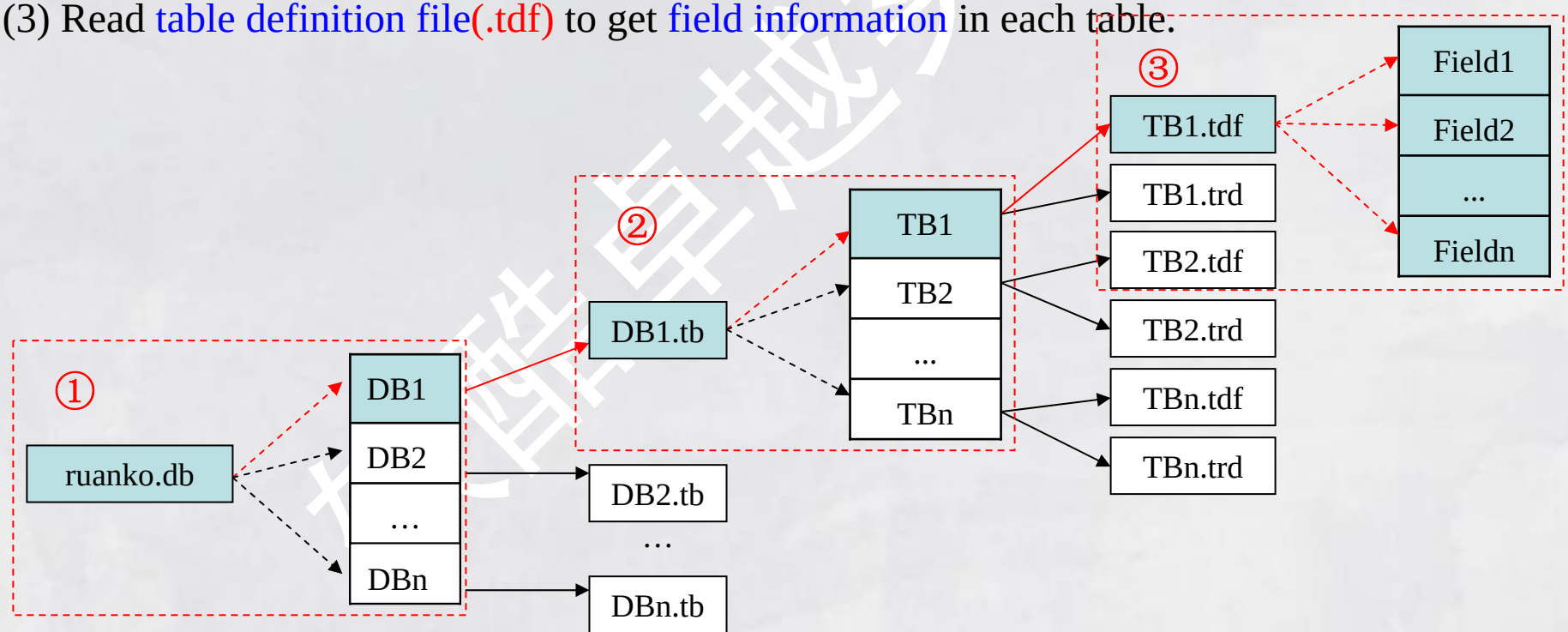
Read the table definition file (*.tdf), and query each table structure. Define CTableEntity array in the **document class** CRKDBMSDoc; save the table structure into memory and display in the **tree view** CDBView and **list view** CTableView.

1. File structure

(1) Find the path of "Ruanko.tb" file according to the database name "Ruanko"

(2) Read table description file "ruanko.tb" to get the path of table definition file(.tdf).

(3) Read table definition file(.tdf) to get field information in each table.



2. Data transfer

The database name “Ruanko” is transferred to the CTabelLogic class in the business layer for processing by the document class CRKDBMSDoc. CTableLogic call CTableDao class in the data access layer to read file, and assemble the table structure information to CTabelEntity array, then return to document class.

(1) CRKDBMSDoc::LoadTables() function of document class

CRKDBMSDoc::LoadTables() call the CTableLogic::GetTables() function, and transfer database name “Ruanko” to the business logic layer.

(2) CTableLogic::GetTables() function of logic class

1) Call CTableDao::GetTables() function, and read “Ruanko.tb” file to get table descripiton information.

2) Call CTableDao::GetFields() function, and read “ *.tdf” file to get field information in the table.

3) Assemble CTabelEntity object array, and return to the document class.

(3) View diaplay

Call document class CRKDBMSDoc::UpdataAllViews() , and notify view update.

Implementation

Iterative development based on the “define table structure” function; get table information in the database from table description file (.td), and get field information in the table from table definition file (.tdf) file, then display in the interface.

The implementation steps are as follow:

Step 1: query table structure in the data access layer

Step 2: query table structure in the business logic layer

Step 3: display table structure in tree view

Step 4: display table filed information in list view

www.ruanko.com

Thanks

Show table structure