

## Implementation Details for Multiple Billing

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A classical problem in multiple medical billing systems is how to implement line items within sub accounts. The additional constraints are that any item is associated with the source owner and with the target report.

The instant solution is to add types of accounts to describe items named diagnostic code and insurance company information. The user is also required to input a patient social security number (SSN), insurance company ID, and diagnostic code. The insurance company ID may be the employer ID number issued for tax purposes.

The input data types are all HUGE integer with these tentative range of extrema.

Diagnostic Code	000-00-0000.0 – 000-09-9999.9	[100,000 possible codes]
Insurance ID	000-10-0000 – 000-99-9999	[100,000 possible IDs]
...		
ID SSN	000-00-0000 – 999-99-9999	[1,000,000,000 possible IDs]

The tables transactions, accounts, and type of account require, respectively, these column names.

For the automatic trigger to work, the user inputs the three items above plus a transaction type. The three items are stored in the table transactions and table accounts. The insurance ID and patient SSN are stored also in the table type of accounts to associate the patient with applicable insurance companies. The details of each insurance company and each diagnostic code are stored in the respective type of account describing each.

Due to a name length constraint of 18-characters for columns in DB2, the tables are abbreviated as follows:

Transactions	TRAN
Type of Transaction	TYPT
Accounts	ACCT
Type of Account	TYP A
Processes	PROC
Reports	REPT
Input Buffer	INBF