

## CHAPTER 4 ANALYSIS AND DESIGN

### 4.1 Analysis

In this database synchronization method using a stored procedure and trigger that on input to a database in order to synchronize. The trigger that made so that data can be synchronized is the trigger and stored procedure input function every time entering data, the trigger will do some checking into the database “singkron” first before doing synchronization, trigger and stored procedure update function to change data on the primary database, perform on the changes also occur in the database in sync so that each other's databases can synchronize the trigger, and stored procedure to delete function to delete data in the database is synchronized when the data in the clear from main database. 3 database has table and column in the same table that is stuff that has 3 columns i.e. column nim as a primary key, name of goods and unit of transaction, table with two columns i.e. column no. Note as the primary key, and the date. Table detail have 5 columns i.e. column no. as primary key, foreign key as notes from the transaction table, item code as a foreign key from a table of items, quantities and prices.

### 4.2 Desain

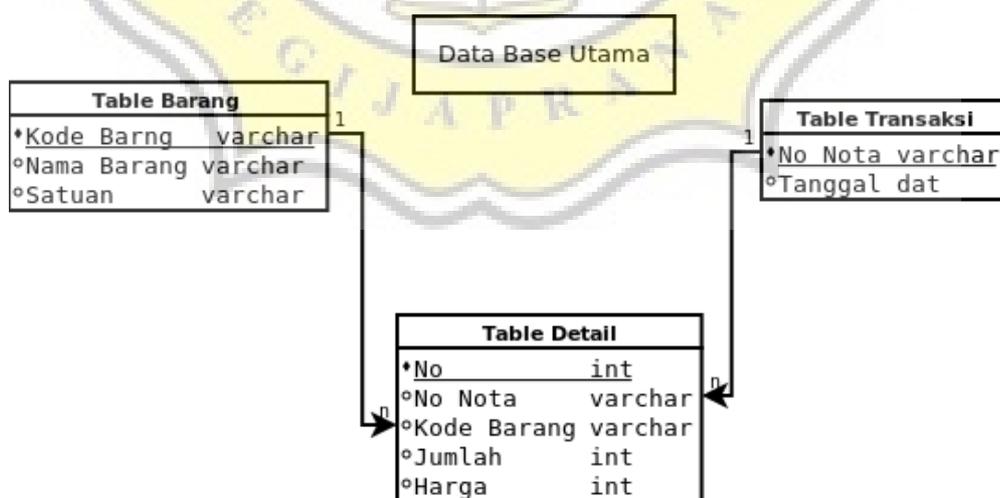


Illustration 4.1 The design of the main databbase stucture

The picture 4.1 above shows the main database design has three table i.e. table barang with kode barng column as the primary key, nama barang, and the satuan, table transaksi with column no nota as the primaty key, and tanggal colomn, table detail with no column as the primary key, no nota as foreign key, foreign key as kode barang, jumlah, and harga.

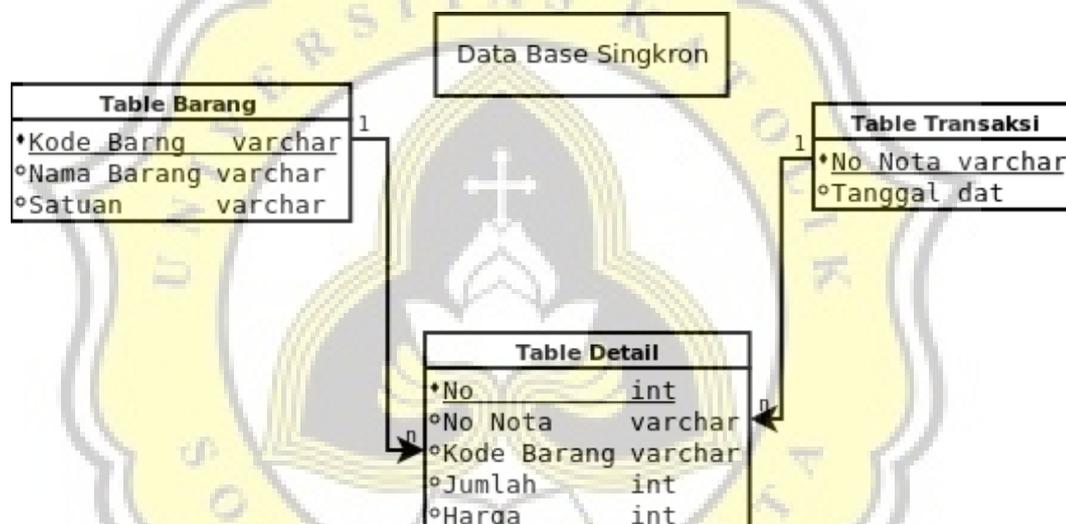


Illustration 4.2 The design of the singkron databbase stucture

The picture 4.2 above shows the “singkron” database design has three table i.e. table barang with kode barng column as the primary key, nama barang, and the satuan, table transaksi with column no nota as the primaty key, and tanggal colomn, table detail with no column as the primary key, no nota as foreign key, foreign key as kode barang, jumlah, and harga.