



PLANNING MANUAL

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Introduction

CTU Comic Solutions is a comic book distribution centre that sells comic books to comics stores all across South Africa. My company has tasked me with handling the client and creating a database for them in accordance to their requirements. This document contains the design/flow of the database and outline of the requirements and functionality.

Requirements

The database must adhere to the following specifications:

- The database must be called “ComicsDB”
- The database must contain the following tables:
 - Users table
 - UserID
 - User name
 - User email address
 - User full name
 - Password
 - Date account was created
 - Closest branch
 - Staff table
 - EmpNo
 - FirstName
 - LastName
 - Branch
 - PhoneNo
 - HireDate
 - JobDescription
 - Gender
 - Birthdate
 - Salary
 - Comics table
 - Title
 - Author
 - Description
 - Issue
 - Publisher
 - CoverPage
 - History tables
 - Copies of all the other tables in the database that keeps record of all deleted records
 - Must contain the date deleted
 - Must contain who deleted the entry

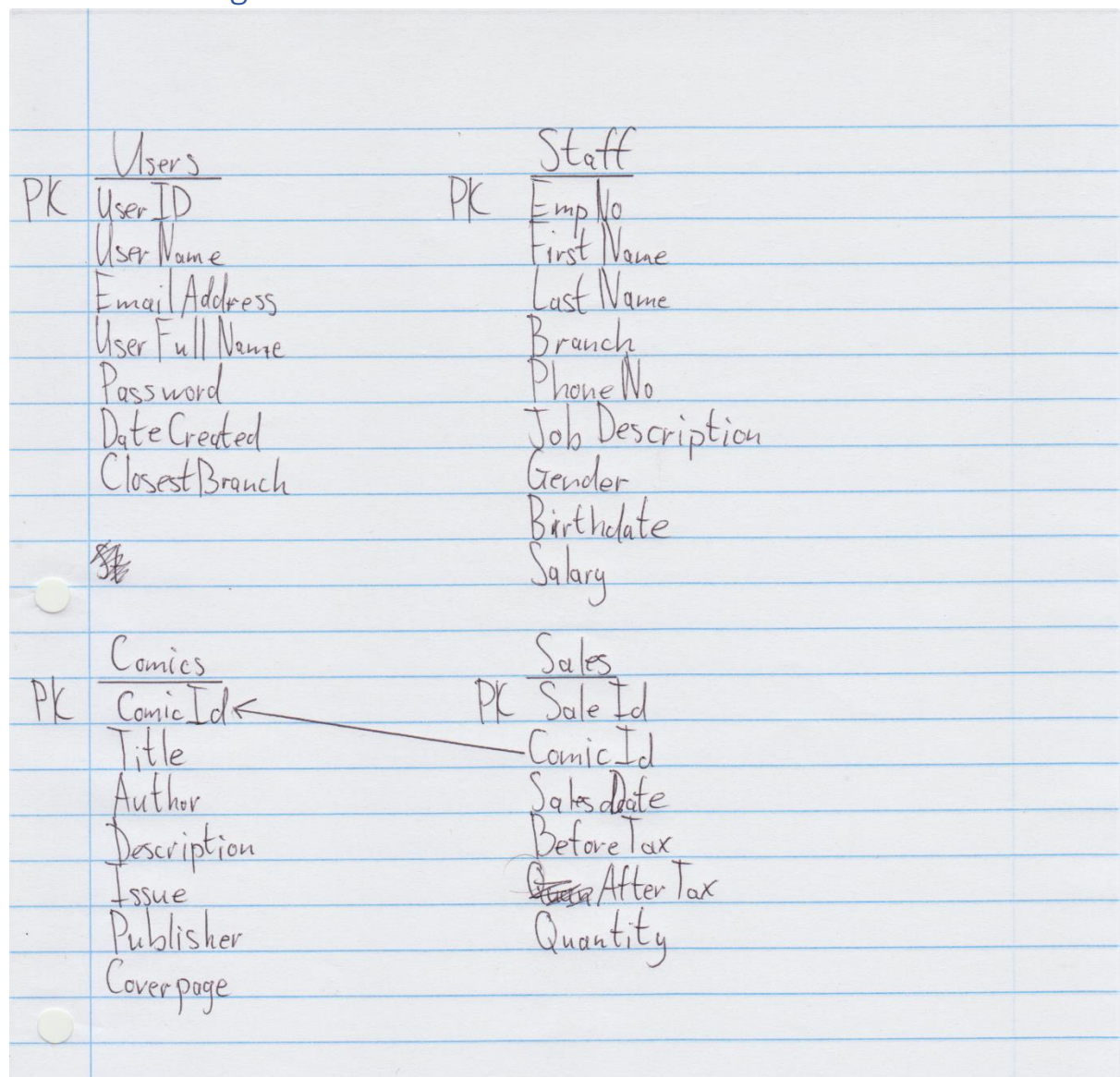
- Sales table
 - Quantity
 - Price before tax
 - Price after tax (15% tax)
 - The sold item
- Schemas must be created for each region that has a store branch
 - Bloemfontein
 - Boksburg
 - Durban
 - Port Elizabeth
 - Polokwane
 - Vereeniging
 - Potchefstroom
 - Cape Town
 - Pretoria
 - Auckland Park
 - Roodepoort
 - Nelspruit
 - Stellenbosch

Additional functionality

My company has also added the following details in order to add functionality and structure to the project:

- The database must be in 3rd Normal Form
- Each table needs at least ten rows of dummy data
- One view that must show the total sales of all the regions
- Built-in aggregate functions must be used to calculate totals
- System functions must be used for date determination
- A view must be created that shows how many customers there are in each region
- Stored procedures must be created for inserting, updating and deleting data in the tables
- Triggers must be used to move data to the history table
- TRY/CATCH error handling must be implemented
- Error messages must be generated with THROW and RAISERROR according to what is caught in the TRY/CATCH statement

Database design



Conclusion

This concludes the planning manual. I have documented the design/flow of the database and an outline of the requirements and functionality.