Sadiq Abubakar

Professor Victor Sanuy

Intro to Database

08/4/2020

Jenny’s Salon Statement of Work

History.

Jenny just graduated from a beauty Salon School and after few months started her own business. She started the business and it went so well. Customers were satisfied and happy. They enjoyed her services. This led to increase in demand that she had to open another one. But due to the rapid growth of the business and Jenny’s focus on customer satisfaction she has not given much time to record keeping. Record keeping is not only time consuming. It is tedious and prone to many errors. So, she decided to create a database. Based on the type of work she wants to use it for her best options is to use a Centralized database.

A centralized database is stored at a single location such as a mainframe computer. Mostly a centralized database is used by organizations such as banks, school, companies to keep track of customers, employees and all the required and important information needed.

Scope.

As defined earlier a Centralized database is stored at a single location such as a mainframe computer. It will help in storing all the information required A list of business rules to be reviewed and a preliminary data model, including the entities and their relationships for review. Such as record keeping, copies of customers receipts and also customer information. It would contain all the important information and records needed by Jenny. It will contain the materials in stock and also the ones out of stock. It should contain employees’ salaries, tax fees, and the entire financial records of her Salon.

Constraints.

The good thing about the database is that it stores records and it never lies. It cannot prevent human errors. The data that has been input in it stays the same unless if tempered with. It cannot make payments. It does make tax payments or other payments. This database will not process payroll and taxes nor will it track how many hours employees work.

Objectives.

Make a database that suites Jenny’s Salon needs (Centralized)

Track payments made, and income from Salon

Track out of stock or in stock materials.

Track expenditures such as rent fee or supplies fees.

Keep customers information.

Task and Timeline

1) **Gathering Data**: This task will require the gathering of all the files, and data. All the records of customers and employees will have to be provided so as to be stored in the database. The in stocks and out of stock records, expenditures, and incomes will be provided and stored into the database. Time allotted 1 week

**Deliverable**: A documents that contains all the information gathered.

2**) Analyzing Data**: Analyzing the data obtained and have a review to what is needed as well as determine business rules and creating some preliminary data model. Time allotted 2 weeks

**Deliverable**: A list of business rules to be reviewed and a preliminary data model, including the entities and their relationships for review.

3) **Normalization**: The data will be completely normalized, and all the historic data will be compiled. 1 week

**Deliverable**: Entity diagram for review.

4) **Building the physical database**: The data gotten from the records will the be added to a table created containing columns with specific data types, relational and constraints. Historical data tables created for future input. 1 week

**Deliverable**: The Schema of the database for review.

5) **Testing and Security**: Data will undergo several test run. It will undergo business rules and requirement tests. They include data integrity, report generation, and general database security will be tested. Time allotted 2 weeks.

**Deliverable**: Documented test results and sample generated reports.

6) **Database Completion and Implementation**: The final corrections are made and all the records and data provided will be entered into the database. The Database will be installed in Jenny’s Salon. Centralized Server. Time estimate 2 weeks

**Deliverable**: A working database.

**Total time = 9 weeks.**