# Programming Assignment 2 Report

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## Project Idea

Here you should discuss your idea. For instance:

For this assignment we have designed and implemented a system to store data about the COVID vaccination. We have downloaded the data from this source: [www.somesource.com](http://www.somesource.com/) (alternatively you can generate your own data). Our tool enables users to track this data but also provide various statistics and visualizations of the data. ….

For this assignment I have designed and implemented a system to store customer, store, order and article data in one database.

I generated all the data using the tools supplied at [https://www.mockaroo.com](https://www.mockaroo.com/).

My program enable supervisor at a store chain to keep track of all its customers data and purchases, the chains supplied articles, all the chains stores different locations and more.

## Schema Design

Here you present your schema design. You can use softwares such as [https://app.diagrams.net](https://app.diagrams.net/) to draw your schema. Explain all the tables/relations and different connections they have.

## SQL Queries

Here you present and discuss the most interesting queries. Make sure you have 5 of them at least and check the specification in the assignment sheet. One example is found below:

Q: **List the name, last name and job title of the employee from a given city.**

The following query is a multirelation query and uses *JOIN.* We pass the argument of the city name (marked with ? in the query) and the query should give us all the employees of the corresponding shop. We join table *Employees* on table *Shops* by matching the *Shops.ID* to the foreign key *Employees.shopID*

SELECT firstname, lastname, jobtitle

FROM Employees

JOIN Shops ON Employees.shopID = Shops.ID

WHERE city=?;

## Discussion and Resources

Here you can write anything you might think it is important and provide the link to the required resources. For example:

We had issues with the missing and inconsistent data. We decided to remove/insert NULLS in the missing/corrupted attributes/tuples…...

The project uses xyz library, please check readme.txt for installation details.

Source code: [github/... link]

Video demonstration: [youtube/vimeo/... link]