1. RDBMS Design, Data Modeling, and Basic Concepts:
   ○ Overall notes on Database Design and Data Modeling:
     https://docs.google.com/document/d/1ze1h0RgdoPd4tCkwy6NxGisu
     GNecIRJwOS0qcI6U3z8/edit#heading=h.ylx8cwd3917q
   ○ Keys: https://www.guru99.com/dbms-keys.html
   ○ ERD:
     i.   https://www.lucidchart.com/pages/er-diagrams
     ii. https://creately.com/blog/diagrams/er-diagrams-tutorial/
     iii. https://www.guru99.com/er-diagram-tutorial-dbms.html
     iv. https://www.youtube.com/playlist?list=PL3R9-um41JsxPg4WA
          PeEZgH6oAk2oti0Q
     v.   https://drive.google.com/file/d/11JyZ3p2QCmxpJhthKtS9mZbg
          D37vRD65/view

2. SQL
   ○ W3schools SQL tutorial: https://www.w3schools.com/sql/default.asp
   ○ W3schools MySQL tutorial: https://www.w3schools.com/mysql/
   ○ Mode SQL tutorial: https://mode.com/sql-tutorial
   ○ Difference between Views and Materialized Views | tutorialspoint
   ○ CTE in SQL | geeksforgeeks
   ○ CTE vs subquery | learnsql blog
   ○ Window functions in SQL | geeksforgeeks
   ○ SQL Window Function Example | learnsql blog
   ○ Window Functions - Analytics Vidhya
   ○ Top 5 Most Popular Window Functions | mode
   ○ Window functions | PostgreSQL documentation
   ○ SQL Procedural Language
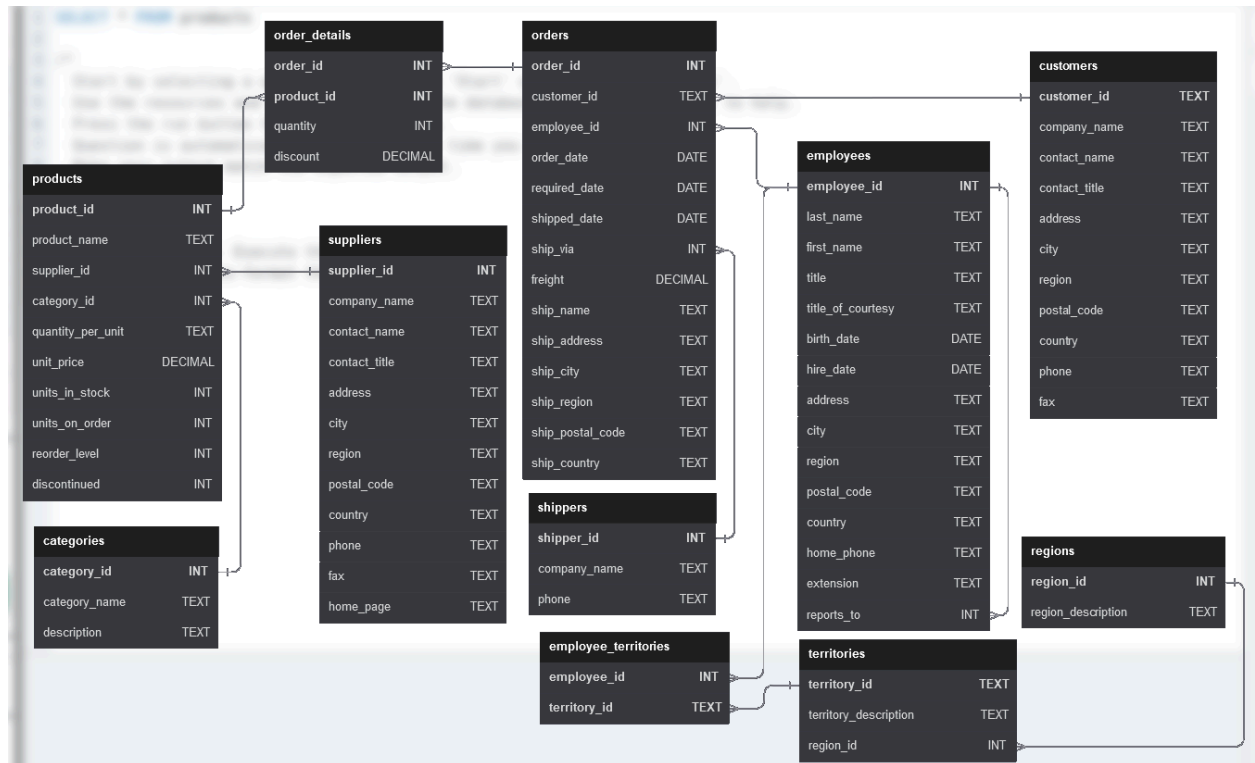   ○ Difference between Function and Procedure

3. Data Wrangling with SQL:
   ○ Mode Tutorial: https://mode.com/sql-tutorial/data-wrangling-with-sql
   ○ Advanced Data Wrangling Techniques with SQL (blog): https://talent500.co/blog/advanced-data-wrangling-techniques-with-sql/
   ○ MY DATA WRANGLING PROJECT WITH SQL (MYSQL): https://medium.com/@jennifer.ezeanyim/my-data-wrangling-project-with-sql-mysql-50b6e6e53ba2

4. Practice SQL from: https://www.sql-practice.com/
a. Go through the database schema first
   i. hospital.db

patients

patient_id	INTEGER
first_name	VARCHAR(30)
last_name	VARCHAR(30)
gender	CHAR(1)
birth_date	DATE
city	VARCHAR(30)
province_id	CHAR(2)
allergies	VARCHAR(80)
height	DECIMAL(3,0)
weight	DECIMAL(4,0)

doctors

doctor_id	INTEGER
first_name	VARCHAR(30)
last_name	VARCHAR(30)
specialty	VARCHAR(25)

admissions

patient_id	INT
admission_date	DATE
discharge_date	DATE
diagnosis	VARCHAR(50)
attending_doctor_id	INT

province_names

province_id	CHAR(2)
province_name	VARCHAR(30)

ii.   northwind.db

b. **Practice all the questions** (Start from Easy and proceed to Medium and Hard)

Note: Although the solution is available right there, try solving the questions without looking at the solutions so that you will learn better.