




DATA PROJECT: BUSINESS BANK

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Code First Girls: Intro to Data and SQL
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Project idea: Investing in Women

- *Investing in Women* is a project that I did for my work that was the beginning of my interest in data.
- The purpose of the project was to find out whether banks with more women in leadership roles were better at lending to women-led businesses.
- I wasn't able to answer this question as banks don't collect gender disaggregated data for their business loan clients.
- For my project, I decided to make a database for a Business Bank that does record this data.

The Database: tables

1. Bank Employees – data relating to the bank's employees such as name, salary, and gender
2. Business Accounts – data relating to all of the bank's business accounts, such as account numbers and sort codes
3. Business Owners – data relating to owners of the bank's business accounts, such as name, gender, and whether they are the main contact for the account
4. Loan Applications – data relating to the loan applications that the bank receives, such as who is making the application and the amount requested
5. Business Regulator – data relating to the registration of a business, such as name and turnover
6. Loan Application Employee Check – data relating to the processing of loan applications by the bank's employees

How it works

- Account holders wishing to take out a loan must submit a form that meets the minimum requirements (loan under £25k and terms and conditions accepted).
 - ***Sproc** to facilitate inserting data into the Loan Applications table.*
 - ***Trigger** logs an error and does not update the table if either of these conditions are not met.*
- An employee will then pick up the application and determine: i) if the details match the bank's records, ii) if the details match the Business Regulator's records, iii) if they consider the application to be trustworthy.
 - ***View** consisting of a **join** of the Loan Application, Business Regulator and Bank Account tables provides all of the information needed for the first two checks.*
 - ***Function** to set the status of the application as Approved or Rejected if any of the checks are failed.*

Data analysis

- **Join** of five tables: Bank Employees, Business Owners, Loan Applications, Business Regulator, and Loan Application Employee Check.
- Returns all loan applications, the amount requested, the business's annual turnover, the total number of owners, the gender of the employee conducting the check, the gender of the applicant and whether they have passed the trustworthiness check.

	check_id	trustworthiness_check	employee_gender	applicant_gender	total_no_of_owners	Loan_amount_request...	annual_turnov...
▶	0	1	male	male	2	10000.00	5000.00
	1	0	male	female	2	10000.00	5000.00
	2	1	male	male	2	10000.00	5000.00
	3	0	male	female	2	10000.00	5000.00