

## CS4092 Database Project Final

Due April 22nd, 2022  
Spring Semester 2022  
Caleb Cargill

### Contact Information

Caleb Cargill  
[cargilch@mail.uc.edu](mailto:cargilch@mail.uc.edu)

### Database Description

For the final project, I have created a database modeling data for users and their bank accounts, called 'FinancialService'. Relatively basic, but it does model the real world, below is a list of tables I have included:

1. User
2. Role
3. Role\_Type
4. Account
5. Account\_Type
6. Transaction
7. Transaction\_Type

### Submission Notes

For convenience, I have tried to keep this as organized as possible. I have labeled files with the 'deliverable number' that its contents satisfy. Please see table below for a more detailed description of where each deliverable-satisfying file can be found.

#	Deliverable Description	File Location
1	Conceptual Model	Models\01_ConceptualModel.pdf
2	DDL Scripts to Create DB, Tables and Relations	02_LoadDatabaseAndObjectsDDL.sql
3	DML Scripts to Load the Data	03_InsertDataAllTablesDML.sql
4	Test Scripts to Unit Test the DB	Tests\04_TestAccount_TypeTableClass.sql Tests\04_TestAccountTableClass.sql Tests\04_TestRole_TypeTableClass.sql Tests\04_TestRoleTableClass.sql Tests\04_TestTableRelationsClass.sql Tests\04_TestTransaction_TypeTableClass.sql Tests\04_TestTransactionTableClass.sql Tests\04_TestUserTableClass.sql
5	Queries that show all the data	Queries\05_QueryShowAllData.sql
6	Queries that show all the relations	Queries\06_QueryShowAllRelations.sql
7	One or more view creation scripts	Views\07_vwUser_Account_Roles.sql Views\07_vwUser_NetWorth.sql
8	A query that uses a view	Views\08_QueryShowUserInfoWithViews.sql
9	One or more stored procedures	StoredProcedures\09_spUser_Create.sql StoredProcedures\09_spUser_Delete.sql StoredProcedures\09_spUser_Read.sql StoredProcedures\09_spUser_Update.sql
10	Optionally a User Defined Function	Functions\10_fnGetFinancialServiceNetWorth().sql Functions\10_TestFunctionsClass.sql
11	Create a non-default schema	Security\11_CreateNonDefaultSchema.sql
12	Describe the security model	Security\12_SecurityModel.pdf
13	Scripts to implement the security model	Security\13_ImplementSecurityModel.sql
14	Scripts to test the security model	Security\14_TestSecurityModelClass.sql