Entity Relationships

# Customer

* Connected to LoanApplication (one-to-many): A customer can have multiple loan applications.
* Connected to Transaction (one-to-many): A customer can have multiple transactions.
* Connected to Account (one-to-one): A customer has one account.
* Connected to SupportTicket (one-to-many): A customer can raise multiple support tickets.

# LoanApplication

* Connected to Customer (many-to-one): Many loan applications belong to one customer.
* Connected to LoanAgreement (one-to-one): An approved loan application results in one loan agreement.
* Connected to RiskAssessment (one-to-one): Each loan application undergoes one risk assessment.
* Connected to Document (one-to-many): A loan application can have multiple supporting documents.

# LoanAgreement

* Connected to LoanApplication (one-to-one): A loan agreement is derived from one approved loan application.
* Connected to Payment (one-to-many): A loan agreement can have multiple payments.
* Connected to Transaction (one-to-many): A loan agreement can be linked to multiple transactions (disbursements and repayments).

# Payment

* Connected to LoanAgreement (many-to-one): Many payments belong to one loan agreement.

# Employee

* Connected to LoanApplication (many-to-many): Employees may approve multiple loan applications, and a loan application may be approved by multiple employees (e.g., different levels of approval).
* Connected to Account (one-to-one): An employee has one account.
* Connected to SupportTicket (one-to-many): An employee can be assigned to handle multiple support tickets.

# Account

* Connected to Customer (one-to-one): An account is associated with one customer.
* Connected to Employee (one-to-one): An account is associated with one employee.

# Transaction

* Connected to Customer (many-to-one): Many transactions belong to one customer.
* Connected to LoanAgreement (many-to-one): Many transactions (repayments) are linked to one loan agreement.

# RiskAssessment

* Connected to LoanApplication (one-to-one): A risk assessment evaluates one loan application.

# SupportTicket

* Connected to Customer (many-to-one): Many support tickets are raised by one customer.
* Connected to Employee (many-to-one): Many support tickets are assigned to one employee.

# Document

* Connected to LoanApplication (many-to-one): Many documents are submitted with one loan application.

# AuditLog

* Connected to Customer and Employee (many-to-one): Many audit log entries are recorded for actions performed by one customer or one employee.

# FinancialProduct

* Connected to LoanApplication (many-to-many): Financial products can be selected in multiple loan applications, and a loan application can have multiple eligible financial products.

# Summary

These relationships ensure data consistency, enable efficient querying, and support the business processes outlined in the overview. The one-to-many relationships allow for tracking multiple instances of related data (e.g., a customer's loan applications), while the many-to-many relationships provide flexibility in connecting entities like financial products and loan applications.