**Employee View ERD**

**0NF**

EmployeeView (EmployeeNumber, SIN, FirstName, LastName, Address, City, Province, PostalCode, WorkPhone, Email, EmployeeGroupCode, EmployeeGroupName, Wage)

**1NF No composite attributes, no repeating values**

No changes necessary for first normal form

**2NF No Partial Dependencies**

No changes Necessary for Second Normal form

**3NF No Transitive Dependencies**

EmployeeView (EmployeeNumber, EmployeeGroupCode, SIN)

EmployeeGroup (EmployeeGroupCode, EmployeeGroupName, Wage)

EmployeeInformation (SIN, FirstName, LastName, Address, City, PostalCode, WorkPhone, Email)

**Book Title View**

**0NF**

BookView (ISBN, Title, SuggestedSellingPrice, Quantity, PublisherCode, PublisherName, {AuthorCode, AuthorFirstName, AuthorLastName}, CategoryCode, CategoryDescription)

**1NF No composite attributes, no repeating values**

BookView (ISBN, Title, SuggestedSellingPrice, Quantity, PublisherCode, PublisherName, CategoryCode, CategoryDescription)

AuthorDetails (ISBN, AuthorCode, AuthorFirstName, AuthorLastName)

**2NF No Partial Dependencies**

BookView (ISBN, PublisherCode, PublisherName, CategoryCode, CategoryDescription)

AuthorDetails (ISBN, AuthorCode)

AuthorInfo (AuthorCode, AuthorFirstName, AuthorLastName)

**3NF No Transitive Dependencies**

BookView (ISBN, PublisherCode, CategoryCode, Title, SuggestedSellingPrice, Quantity)

PublisherDetails (PublisherCode, PublisherName)

CategoryDetails (CategoryCode, CategoryDescription)

**Final Entity List**

BookView (ISBN, PublisherCode, CategoryCode, Title, SuggestedSellingPrice, Quantity)

AuthorDetails (ISBN, AuthorCode)

AuthorInfo (AuthorCode, AuthorFirstName, AuthorLastName)

PublisherDetails (PublisherCode, PublisherName)

CategoryDetails (CategoryCode, CategoryDescription)

**Sale View**

**0NF**

SaleView (SaleNumber, Date, CustomerFirstName, CustomerLastName, Address, City, Province, PostalCode, CustomerNumber, EmployeeFirstName, EmployeeLastName, EmployeeNumber, {ISBN, BookTitle, Price, Quantity, Amount}, SubTotal, GST, Total)

**1NF No composite attributes, no repeating values**

SaleView (SaleNumber, Date, CustomerFirstName, CustomerLastName, Address, City, Province, PostalCode, CustomerNumber, EmployeeFirstName, EmployeeLastName, EmployeeNumber, SubTotal, GST, Total)

BookLog (SaleNumber, ISBN, BookTitle, Price, Quantity, Amount)

**2NF No Partial Dependencies**

BookLog (SaleNumber, ISBN, Quantity, Amount)

BookDetails (ISBN, BookTitle, Price)

**3NF No Transitive Dependencies**

SaleView (SaleNumber, CustomerNumber, Date, EmployeeNumber, SubTotal, GST, Total)

CustomerDetails (CustomerNumber, CustomerFirstName, CustomerLastName, Address, City, Province, PostalCode)

EmployeeDetails (EmployeeNumber, EmployeeFirstName, EmployeeLastName)

**Final Entity List**

SaleView (SaleNumber, CustomerNumber, Date, EmployeeNumber, SubTotal, GST, Total)

CustomerDetails (CustomerNumber, CustomerFirstName, CustomerLastName, Address, City, Province, PostalCode)

EmployeeDetails (EmployeeNumber, EmployeeFirstName, EmployeeLastName)

BookLog (SaleNumber, ISBN, Quantity, Amount)

BookDetails (ISBN, BookTitle, Price)