

# Dan Gilleland

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## Known Bugs:

- Fill in this list when you are finished your solution. Enter *No known bugs* if you have completed all the lab requirements successfully

## Generate PDF from Markdown:

1. Ensure you have the **Markdown PDF** extension to Visual Studio Code installed
2. Open your markdown document
3. Press **F1** to open the Command Palette in VS Code
4. Type **Markdown PDF: Export (pdf)** and press **Enter**

## Legend

This legend is a guide to reading and interpreting the table listings under 0NF through 3NF.

- **TableName:**
  - Table names will be bolded and end with a colon. (e.g.: **\*\*TableName:\*\***)
- (Column, Names)
  - Column names for a table will be enclosed in (rounded parenthesis) (e.g.: `<span class="md">All, Attributes</span>`).
- **PrimaryKeyFields**
  - Primary key fields will be bold and inside a box. (e.g.: `<b class="pk">PrimaryKeyFields</b>`)
- *ForeignKeyFields*
  - Foreign key fields will be a wavy underline in italic and green. (e.g.: `<u class="fk">ForeignKeyFields</u>`)
- {Repeating Groups}
  - Groups of repeating fields will be identified in 0NF stage, and will be enclosed in orange curly braces. (e.g.: `<b class="rg">Repeating, Group, Fields</b>`)

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**Your solution here**

## Customer Details View

0NF

After performing Zero-Normal Form, a single entity was identified: **Customer**

**Customer:** (**CustomerNumber**, FirstName, LastName, Address, City, Province, PostalCode, HomePhone)

1NF - 3NF

No changes to the entity in 1NF through 3NF.

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Customer	
PK	CustomerNumber
	FirstName
	LastName
	Address
	City
	Province
	PostalCode
	HomePhone

## Customer Orders View

### 0NF

After performing Zero-Normal Form, a single entity was identified: **Order**

**Order:**  
(**OrderNumber**, CustomerNumber, FirstName, LastName, Address, City, Province, PostalCode, Phone, Date, {ItemNumber, Description, Quantity, CurrentPrice, SellingPrice, Amount}, Subtotal, GST, Total)

### 1NF

After performing First-Normal Form, a new entity was identified: **OrderDetail**

**Order:**  
(**OrderNumber**, CustomerNumber, FirstName, LastName, Address, City, Province, PostalCode, Phone, Date, Subtotal, GST, Total)  
**OrderDetail:** (**OrderNumber**, ItemNumber, Description, Quantity, CurrentPrice, SellingPrice, Amount)

### 2NF

After performing Second-Normal Form, another new entity was identified: **Item**

**OrderDetail:** (**OrderNumber**, ItemNumber, Quantity, SellingPrice, Amount)  
**Item:** (**ItemNumber**, Description CurrentPrice)

### 3NF

After performing Third-Normal Form, another new entity was generated: **Customer**

**Order:** (<sup>P</sup>OrderNumber, <sup>E</sup>CustomerNumber, Date, Subtotal, GST, Total)

**Customer:** (<sup>P</sup>CustomerNumber, FirstName, LastName, Address, City, Province, PostalCode, Phone)

ERD

