

ESP-2 - Customer Payments Against Orders

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Payments Log View

0NF

PaymentsLog:

(**OrderNumber**, FirstName, LastName, OrderDate, CustomerNumber, OrderTotal,
{Date, PaymentAmount, PaymentNumber, BalanceOwing, PaymentType, DepositBatchNumber})

1NF

PaymentsLog: (**OrderNumber**, FirstName, LastName, OrderDate, CustomerNumber, OrderTotal,)

PaymentLogDetails:

(**OrderNumber**, **PaymentNumber**, Date, PaymentAmount, BalanceOwing, PaymentType,
DepositBatchNumber)

2NF - **Partial** Dependencies

After examining the *PaymentLogDetails*, there were no changes.

Note: When analyzing the *PaymentNumber* in the *PaymentLogDetails* entity, it became apparent (only through looking at additional Payments Log forms) that each Payment Log had their Payment Numbers **re-starting** at the value 1. As a result, this *PaymentNumber* is itself tightly tied to the *OrderNumber* and none of the other attributes in the entity are tied closely to just the *PaymentNumber*.

3NF - Transitive Dependencies

PaymentsLog: (**OrderNumber**, OrderDate, *CustomerNumber*, OrderTotal,)

Customer: (**CustomerNumber**, FirstName, LastName)

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.: All, Attributes).
- **PrimaryKeyFields**
 - Primary key fields will be bold and inside a box. (e.g.: <b class="pk">PrimaryKeyFields)

- *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 ONF stage, and will be enclosed in orange curly braces. (e.g.: `<b class="rg">Repeating, Group, Fields`)