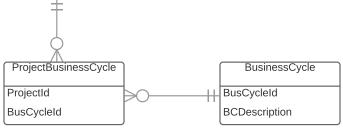
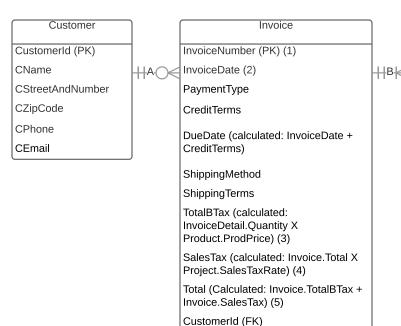
Project ProjectId ProjectName DateRange (default: last calendar year OR input year, quarter, month, specific dates (validation ?) SalesTaxRate (default: random between .05 and .1 OR input (validation >=0 AND <=.2) ExportTables (default: joined OR separate)





InvoiceDetail

InvDetailNumber (PK)

Quantity (6)

SubtotalProduct

Product

Product(PK)

Description

ProdPrice

(calculated:

Χ

(7)

InvoiceDetail.Quantity

Product.ProductPrice)

InvoiceNumber (FK)

ProductId (FK)

SalesSubcycleParameters

NumberOfCustomers (default: random between 1,000 AND 2,000 OR input (validation >=1 AND <=?))

NumberOfInvoices (default: random between NumberOfCustomers AND NumberOfCustomers X 12) OR input (validation >=1 AND <=?))

NumberOfInvoiceDetail (default: random between 1 and NumberOfProducts)

NumberOfProducts (default: random between 5 and 20 OR input (validation >=1 AND <=20)

Anomalies in fields

Input number/percentage

For all PK: Missing PK Repeated PK

For other fields with potential anomalies: Missing

- (1) Invoice.InvoiceNumber (6) InvoiceDetail.Quantity
- Default: Complies with Benford's law

Benford's law (number of digits 1-3?)

(2) Invoice.InvoiceDate Out of project range Invalid working days

- (3) Invoice. Total BTax,
- (4) Invoice. Sales Tax, (5) Invoice. Total,
- (7) InvoiceDetail.SubtotalProduct

Negative number Incorrect calculation

Anomalies in relationships

Invoice without customer or Invoice detail Default: Normal distribution of number of invoices (Total?)

Skewed

InvoiceDetail without Invoice