



PRINTVIS

WELCOME PrintVis User Group

SEPTEMBER 2024

The background of the slide is a photograph of an open book. The book is open to two pages that feature vibrant, colorful illustrations. The left page shows a landscape with a rainbow arching over a body of water and green hills. The right page has a similar theme with a rainbow and some text. The book is resting on a light-colored surface, and the overall image has a soft, slightly blurred quality.

Basic data model

Presented by Brandon Steele and Kasper Tomhøj



PRINTVIS

Getting started

- Setup environments
- Instal VScode
- Use AL-Go to create PTE
- Define dependencies, Download Symbols
- Launch "Hello World"
- Learn Development for BC:
[Get started with development in Microsoft Dynamics 365 Business Central - Training | Microsoft Learn](#)
- PrintVis documentation on Support Portal
<https://support365.printvis.com/a/solutions/>
- Examples on Github
[PrintVis · GitHub](#)

The “Case”

| | |
|------------------------------|------------------------------------|
| Table:PVS Case | |
| Key field:ID | |
| Commonly used Fields | |
| Sell To No. | Who is ordering |
| Job Name | Text field for describing the case |
| Status Code | Current Status of the Case |
| Product Group and Order Type | Define type of case |



Code example: Simple Page Extension

User Story:

"The customer service manager would like to have a way for users to quickly access SOP documentation from the system."

Page Extension

- Personalization vs Designer
[Use Designer - Business Central | Microsoft Learn](#)
- Create PageExt using the designer
- Export PageExt to VScode
- Add Learn
- Build app
- Move to production

Data structure: Estimating

Presented by Kasper Tomshøj



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The “Job”

| | |
|----------------------------|-----------------------------|
| Table:PVS Job | |
| Key field:ID, Job, Version | |
| Commonly used Fields | |
| Quantity | Ordered/estimated quantity |
| Quoted Price | Quoted price for the line |
| Active | Check if the line is active |
| Requested Delivery Date | Requested Delivery Date |

| ID | Job | Version | Status | Active | Quantity |
|-----|-----|---------|--------|--------|----------|
| 123 | 1 | 1 | Quote | No | 5000 |
| 123 | 1 | 2 | Quote | Yes | 10000 |
| 123 | 1 | 3 | Quote | No | 15000 |
| 123 | 1 | 4 | Order | Yes | 7000 |



Job versions

| ID | Job | Version | Status | Active | Quantity | Quote Calculation | Order Calculation | Production Calculation |
|-----|-----|---------|-------------|--------|----------|-------------------|-------------------|------------------------|
| 123 | 1 | 1 | Quote | No | 5000 | | | |
| 123 | 1 | 2 | Quote | Yes | 10000 | Yes | | |
| 123 | 1 | 3 | Quote | No | 15000 | | | |
| 123 | 1 | 4 | Order | No | 7000 | | | |
| 123 | 1 | 5 | Order | Yes | 7000 | | Yes | |
| 123 | 1 | 6 | Prod. Order | No | 7000 | | | |
| 123 | 1 | 7 | Prod. Order | Yes | 8000 | | | Yes |



Job versions

| ID | Job | Version | Status | Active | Quantity | Quote Calculation | Order Calculation | Production Calculation |
|-----|-----|---------|-------------|--------|----------|-------------------|-------------------|------------------------|
| 123 | 1 | 1 | Quote | No | 5000 | | | |
| 123 | 1 | 2 | Quote | Yes | 10000 | Yes | | |
| 123 | 1 | 3 | Quote | No | 15000 | | | |
| 123 | 1 | 4 | Order | No | 7000 | | | |
| 123 | 1 | 5 | Order | Yes | 7000 | | Yes | |
| 123 | 1 | 6 | Prod. Order | Yes | 8000 | | | Yes |
| 123 | 2 | 1 | Order | Yes | 5000 | Yes | Yes | Yes |



Code example: Extend Page Extension

User story:

"Add 2 fields on the case card: Quote Quantity and Order Quantity"

Job Items, Sheets, Processes, Colors....

| | |
|--|---|
| Table: PVS Job Item | |
| Key field: ID, Job, Version, Job Item No., Entry No. | |
| Commonly used Fields | |
| Component Type | “Text,” “Cover,” etc. |
| Sheet ID | What sheet is the job item placed on |
| Quantity, “Pages with print”, Format Code, etc. | All describing the component to produce |

<https://support365.printvis.com/a/solutions/articles/17000120364>

Calculation Units

| | |
|---|---|
| Table: PVS Job Calculation Unit | |
| Key field: ID, Job, Version, Unit Entry No., Line Type, Entry No. | |
| Commonly used Fields | |
| Unit Text | Code and Description of the unit |
| Department Cost Center Code | What department and cost center are used for this |

Calculation Details

| | |
|---|---|
| Table: Job Calculation Detail | |
| Key field: ID, Job, Version, Unit Entry No., Line Type, Entry No. | |
| Commonly used Fields | |
| Type | Material or hour |
| Item No. | If it is of type <i>material</i> |
| Cost Center | What cost center that is active on the line |
| Operation | The operation that should be performed, type = hour. |
| Quantity | How many of the item is required |
| Hours | How long time will the operation take |
| Formula Code | How is the Quantity Calculated? Formula code points against a Calculation formula that will return a Quantity |
| Speed | Quantity per hour |
| Some different price fields | Input needed from Consultant what field should be used. |



Code example: Calculation formula

User Story:

"I need a calculation formula that will give me the total MSI of the final product."

Data structure: Producing a job

Presented by Kasper Tomshøj



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Job Costing Entries

| | |
|--|--|
| Table: PVS Job Costing Entry | |
| Key field: Entry No. | |
| Commonly used Fields | |
| Table ID | Table this cost originates from 17 "G/L Entry" 32 "Item Ledger Entry" 6010325 "PVS Job Costing Labor Entry" |
| Table Entry No. | Entry No. for the originating record |
| Type | The entry could be either Cost or Sale. Entries of type Sales comes from the invoicing. |
| ID | Reference to the case |
| Department + other statistics | Where the entry is related to |
| Subcontracting | Boolean field that we often want to do statistics on |
| Direct Cost Total + various other price fields | Different cost fields |

Code example: Status Code Check

User Story:

"If an order is send to INVOICE without job costing, it must be stopped"

Using Events:

<https://learn.microsoft.com/en-us/dynamics365/business-central/dev-itpro/developer/devenv-events-discoverability>

Code example: Table Extension

User Story:

"Add a customer geography field to the open quote analysis page"