

# BW - QM - Statistics (Core Query)

|                |                               |
|----------------|-------------------------------|
| Description    | BW-QM Statistics (Core Query) |
| Technical Name | BW_QRY_CPQM02_0002            |
| Application    | QM                            |
| Info-provider  | CPQM02                        |
| Usage type     | Direct Execution              |
| Expected users |                               |

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## Workbook/Query General Description

This query is a simple view of QM statistics data.

## General parameters

### Global properties

| Tab     | Screenshot                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Comment |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Display | <div><div>Display Options</div><div><div><input checked="" type="checkbox"/> Adjust Formatting after Refreshing</div><div><input checked="" type="checkbox"/> Hide Repeated Key Values</div><div><input type="checkbox"/> Display Scaling Factors for Key Figures</div></div><div>Document Links</div><div><div><input type="checkbox"/> For InfoProvider Data</div><div><input type="checkbox"/> For Master Data</div><div><input type="checkbox"/> For Metadata</div></div></div> |         |

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |    |   |    |    |     |   |   |   |   |   |   |    |   |   |    |  |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|---|----|----|-----|---|---|---|---|---|---|----|---|---|----|--|
| Rows/Columns  | <div><div>Result Position</div><div><div>Rows</div><div><div><input type="radio"/> Above</div><div><input checked="" type="radio"/> Below</div></div></div><div><div>Columns</div><div><div><input type="radio"/> Left</div><div><input checked="" type="radio"/> Right</div></div></div></div> <div><div>Suppress Zeros</div><div><div>Suppress Zeros</div><div><div><input checked="" type="radio"/> Do Not Suppress</div><div><input type="radio"/> Active</div><div><input type="radio"/> Active (All Values = 0)</div></div></div><div><div>Effect on</div><div><div><input checked="" type="radio"/> Rows</div><div><input type="radio"/> Columns</div><div><input type="radio"/> Rows and Columns</div></div></div></div> <div><table><tr><td>10</td><td>10</td><td>0</td><td>20</td></tr><tr><td>10</td><td>-10</td><td>0</td><td>0</td></tr><tr><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>20</td><td>0</td><td>0</td><td>20</td></tr></table></div> | 10 | 10 | 0 | 20 | 10 | -10 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 20 |  |
| 10            | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0  | 20 |   |    |    |     |   |   |   |   |   |   |    |   |   |    |  |
| 10            | -10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0  | 0  |   |    |    |     |   |   |   |   |   |   |    |   |   |    |  |
| 0             | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0  | 0  |   |    |    |     |   |   |   |   |   |   |    |   |   |    |  |
| 20            | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0  | 20 |   |    |    |     |   |   |   |   |   |   |    |   |   |    |  |
| Value Display | <div><div><div>Display of +/- Signs</div><div><div><input checked="" type="radio"/> Before the Number -123.45</div><div><input type="radio"/> After the Number 123.45-</div><div><input type="radio"/> In Parentheses (123.45)</div></div></div><div><div><div>Zero Value Display</div><div>Display Zeros</div><div><div>Zero with Curren</div><div></div></div><div>Show Zeros As...</div><div></div></div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |    |   |    |    |     |   |   |   |   |   |   |    |   |   |    |  |
| Planning      | <div><div><div>Startup View</div><div><div><input type="checkbox"/> Start Query in Change Mode</div></div></div><div><div><div>Calculation of Inverse Formulas</div><div>Selecting the checkbox results in calculation of inverse formulas if an element in the formula group has been changed or fixed. Otherwise, the calculation is not performed until the value of input-ready formula has been changed or fixed.</div></div></div><div><div><div>Calculation Mode</div><div><div><input type="checkbox"/> Symmetrical Calculation Mode for Inverse Formulas</div></div></div></div></div>                                                                                                                                                                                                                                                                                                                                                                         |    |    |   |    |    |     |   |   |   |   |   |   |    |   |   |    |  |

|                                                               |                                                               |  |
|---------------------------------------------------------------|---------------------------------------------------------------|--|
| Extended                                                      | <b>Enterprise ID</b>                                          |  |
|                                                               | AKLI1L2RFQC0SKPRUCKBG2B1A                                     |  |
|                                                               | <b>Release for External Access</b>                            |  |
|                                                               | Allow External Access to this Query                           |  |
|                                                               | <input type="checkbox"/> By OLE DB for OLAP                   |  |
|                                                               | Lightweight consumption                                       |  |
|                                                               | <input type="checkbox"/> By Easy Query                        |  |
|                                                               | <b>Request Status</b>                                         |  |
|                                                               | Every InfoProvider in MultiProvi                              |  |
|                                                               | <input checked="" type="checkbox"/> Use InfoProvider Settings |  |
| <b>Near-Line Storage</b>                                      |                                                               |  |
| Use Near-Line Storage Accordi                                 |                                                               |  |
| <input checked="" type="checkbox"/> Use InfoProvider Settings |                                                               |  |

## Variables

### Definitions

| Variable Description                                | Variable Name              | Info-object              | Selection Type                            | Required | Description /Explanation |
|-----------------------------------------------------|----------------------------|--------------------------|-------------------------------------------|----------|--------------------------|
| Auth Scope on Plant (Auth with input)               | V_C_PLANT_C_AUTHM<br>A_002 | C_PLANT__C_AUTH<br>MA    | Authorization with input<br>select option | No       |                          |
| Operation (Single Value, Optional)                  | Z_OPE                      | C_LTXA1                  | Selection Option                          | No       |                          |
| Task list group (Select. option, Optional)          | ZPLNNR                     | OPLNNR                   | Selection Option                          | No       |                          |
| Date Usage Decision (Selection Option,<br>Optional) | VDATU_01                   | C_VDATUM                 | Selection Option                          | No       |                          |
| End date of insp (Select Option,<br>Optional)       | PRUDT_01X                  | C_PRUDT                  | Selection Option                          | No       |                          |
| Insp Start Date QM Lot (Select Option,<br>Optional) | LSPAS_01                   | C_LSPASTD                | Selection Option                          | No       |                          |
| Insp Start Dat- Glob (Select Option,<br>Optional)   | PRUDV_01                   | C_PRUDV                  | Selection Option                          | No       |                          |
| Insp. Char Text (Select Option, Optional)           | CHART_01                   | C_CHARTXT                | Selection Option                          | No       |                          |
| Date of lot creation (Select Option,<br>Optional)   | ENSTE_01                   | C_ENSTEHD                | Selection Option                          | No       |                          |
| Inspection Lot (Select option, Optional)            | ZINSPLOT                   | OINSP_LOT                | Selection Option                          | No       |                          |
| Date of Manufacture (Selection Option,<br>Optional) | HSDAT_01                   | C_HSDAT                  | Selection Option                          | No       |                          |
| WP1 Material Number                                 | V_C_MATNR2_0010            | C_MATNR2                 | Selection Option                          | No       |                          |
| Plant(s)                                            | V_C_PLANT_37               | C_PLANT                  | Selection option                          | Yes      |                          |
| Key Date (Interval / Optional)                      | ZKEYDATE_001               | OINSP_LOT__C_KEY<br>DATE | Interval                                  | No       |                          |

### Variable Sequence

### Variable Sequence

|       |  |                                                                |
|-------|--|----------------------------------------------------------------|
| ..... |  | [V_C_PLANT_C_AUTHMA_002] Auth Scope on Plant (Auth with input) |
| ..... |  | [Z_OPE] Operation (Single Value, Optional)                     |
| ..... |  | [ZINSPLOT] Inspection Lot (Select option, Optional)            |
| ..... |  | [V_C_MATNR2_0010] WP1 Material Number                          |
| ..... |  | [CHART_01] Insp. char text (Select Option, Optional)           |
| ..... |  | [V_C_PLANT_37] Plant(s)                                        |
| ..... |  | [ENSTE_01] Date of lot creation (Select Option, Optional)      |
| ..... |  | [LSPAS_01] Insp Start Date QM Lot (Select Option, Optional)    |
| ..... |  | [VDATU_01] Date Usage Decision (Selection Option, Optional)    |
| ..... |  | [PRUDT_01X] End date of insp (Select Option, Optional)         |
| ..... |  | [PRUDV_01] Insp Start Dat- Glob (Select Option, Optional)      |
| ..... |  | [ZPLNNR] Task list group (Select. option, Optional)            |
| ..... |  | [HSDAT_01] Date of Manufacture (Selection Option, Optional)    |
| ..... |  | [ZKEYDATE_001] Key Date (Interval / Optional)                  |

## Filters

| Object | Filter Value | Explanation |
|--------|--------------|-------------|
| NA     | NA           | NA          |

## Key figures

| Description         | Object       | Calculation rule detail | Text Replacement variable | Display                          | Currency Conversion | Unit Conversion |
|---------------------|--------------|-------------------------|---------------------------|----------------------------------|---------------------|-----------------|
| Quantitative Result | K_MITTEL     | Standard Key Figure     | N/A                       | Default                          | N/A                 | N/A             |
| Lower tol. limit    | 0LWR_LIMIT   | Standard Key Figure     | N/A                       | Number of Decimal Places: 0.0000 | N/A                 | N/A             |
| Upper tol. limit    | 0UPPR_LIMIT  | Standard Key Figure     | N/A                       | Number of Decimal Places: 0.0000 | N/A                 | N/A             |
| Total samples       | 0SAMPS_TO TL | Standard Key Figure     | N/A                       | Default                          | N/A                 | N/A             |
| Samples O.K.        | 0SAMPS_OK    | Standard Key Figure     | N/A                       | Default                          | N/A                 | N/A             |
| Nonconforming       | 0NONCONF MNG | Standard Key Figure     | N/A                       | Default                          | N/A                 | N/A             |
| Proportion Faulty   | 0FRAC_NON CF | Standard Key Figure     | N/A                       | Default                          | N/A                 | N/A             |
| Number Above        | 0NO_TOO_H GH | Standard Key Figure     | N/A                       | Default                          | N/A                 | N/A             |
| Number Below        | 0NO_TOO_L OW | Standard Key Figure     | N/A                       | Default                          | N/A                 | N/A             |
| Lwr tol. lvl exists | 0IND_LWRL MT | Standard Key Figure     | N/A                       | Default                          | N/A                 | N/A             |

|                              |             |                     |     |         |     |     |
|------------------------------|-------------|---------------------|-----|---------|-----|-----|
| Upper tolerance level exists | 0IND_UPPLMT | Standard Key Figure | N/A | Default | N/A | N/A |
| ClassChar LowerLimit         | K_LWRLIM    | Standard Key Figure | N/A | Default | N/A | N/A |
| ClassChar UpperLimit         | K_UPPRLIM   | Standard Key Figure | N/A | Default | N/A | N/A |
| Sum single vals              | 0SUM_OF_X   | Standard Key Figure | N/A | Default | N/A | N/A |
| No. of values                | 0NO_OF_VALS | Standard Key Figure | N/A | Default | N/A | N/A |
|                              |             |                     |     |         |     |     |

## Restricted/Calculation/Formula Key figures

| Description        | Object            | Restricted /Calculated /Formula | Calculation rule detail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------|-------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nonconfirming Lot  | 0NONCONFMNG       | Formula                         | 0NONCONFMNG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Mean Value         | BW_CKF_CPQM02_017 | Calculated                      | <p><b>Formula:</b></p> <p>"[BW_CKF_CPQM02_009] Delay between the sample collec and the usage decision (sec)"<br/> <b>DIV 3600</b></p> <p> <b>Formula: BW_CKF_CPQM02_009 - Delay between the sample collec and the usage decision (sec)</b></p> <p><b>Formula</b></p> <p><b>Formula:</b></p> <p>"([ZVDATUM] Date of the usage decision" - "[ZCOLLECT]") * 86400 - ((("[KLSCOLHO]"<br/> DIV 10000 * 60 + "[KLSCOLHO]" MOD 10000 DIV 100) * 60 + "[KLSCOLHO]" MOD 10000<br/> MOD 100) + ("[KVEZEITE] Time of the usage decision" DIV 10000 * 60 +<br/> "[KVEZEITE] Time of the usage decision" MOD 10000 DIV 100) * 60 +<br/> "[KVEZEITE] Time of the usage decision" MOD 10000 MOD 100</p> |
| Standard Deviation | BW_CKF_CPQM02_002 | Calculated                      | <p><b>Formula:</b></p> <p><b>SQRT(MAX0(('0SUM_OF_SQ' - NODIM('0SUM_OF_X') ** 2 / '0NO_OF_VALS') / ('0NO_OF_VALS' - 1)))</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Ppk below          | BW_CKF_CPQM02_003 | Calculated                      | <p><b>Formula:</b></p> <p><b>'0IND_LWRLMT' * (NODIM("[BW_CKF_CPQM02_017] Delay between the sample collec and the usage desicion (h)") - NODIM('0LWR_LIMIT')) / 3 / "[BW_CKF_CPQM02_002] Standard Deviation"</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Ppk on Top         | BW_CKF_CPQM02_004 | Calculated                      | <p><b>Formula:</b></p> <p><b>'0IND_UPPLMT' * (NODIM('0UPPR_LIMIT') - NODIM("[BW_CKF_CPQM02_017] Delay between the sample collec and the usage desicion (h)")) / 3 / "[BW_CKF_CPQM02_002] Standard Deviation"</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Ppk                | BW_CKF_CPQM02_005 | Calculated                      | <p><b>Formula:</b></p> <p><b>DELTA('0IND_LWRLMT') * "[BW_CKF_CPQM02_004] Ppk on Top" + DELTA('0IND_UPPLMT') * "[BW_CKF_CPQM02_003] Ppk below " + COUNT('0IND_LWRLMT') * COUNT('0IND_UPPLMT') * MIN("[BW_CKF_CPQM02_003] Ppk below "; "[BW_CKF_CPQM02_004] Ppk on Top")</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Pp                 | BW_CKF_CPQM02_006 | Calculated                      | <p><b>Formula:</b></p> <p><b>'0IND_LWRLMT' * '0IND_UPPLMT' * (NODIM('0UPPR_LIMIT') - NODIM('0LWR_LIMIT')) / 6 / "[BW_CKF_CPQM02_002] Standard Deviation"</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

|                                        |                     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------|---------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ppk OK                                 |                     | Formula    | "[BW_CKF_CPQM02_005] Ppk" > 1.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Maximum Result                         | BW_QRY_CPQM02_020   | Calculated | <b>Formula:</b><br>"[BW_QRY_CPQM02_024] Maximum Result (Agreg partial Sample)"                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Minimum Result                         | BW_CKF_CPQM02_019   | Calculated | <b>Formula:</b><br>"[BW_CKF_CPQM02_023] Minimum Result (Agreg Partial Sample)"                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Out of Spec (mean values /Sum include) | RCS_CPQM02_C DB_OOS | Calculated | <b>Formula:</b><br>'0NONCONFMNG' +<br>(" [BW_CKF_CPQM02_017] Delay between the sample collec and the usage desicion (h)"<br>> 'K_GRENZEO' OR '0SUM_OF_X' > 'K_GRENZEO')                                                                                                                                                                                                                                                                                                                                                                            |
| Ppk Below Class Char                   | BW_CKF_CPQM02_007   | Calculated | <b>Formula:</b><br>(" [ZVDATUM] Date of the usage decision" -<br>"[ZENSTEHD] Date of the inspection lot creation") * 86400 -<br>((" [KLSSENTST] Time of inspection lot creation" DIV 10000 * 60 +<br>"[KLSSENTST] Time of inspection lot creation" MOD 10000 DIV 100) * 60 +<br>"[KLSSENTST] Time of inspection lot creation" MOD 10000 MOD 100) +<br>(" [KVEZEITE] Time of the usage decision" DIV 10000 * 60 +<br>"[KVEZEITE] Time of the usage decision" MOD 10000 DIV 100) * 60 +<br>"[KVEZEITE] Time of the usage decision" MOD 10000 MOD 100 |
| Ppk on Top Class .Char                 | BW_CKF_CPQM02_008   | Calculated | <b>Formula:</b><br>(" [ZVDATUM] Date of the usage decision" -<br>"[ZPRUEFDA] Date of the inspection start") * 86400 -<br>((" [KQZEITV] Time of the inspection start" DIV 10000 * 60 +<br>"[KQZEITV] Time of the inspection start" MOD 10000 DIV 100) * 60 +<br>"[KQZEITV] Time of the inspection start" MOD 10000 MOD 100) +<br>(" [KVEZEITE] Time of the usage decision" DIV 10000 * 60 +<br>"[KVEZEITE] Time of the usage decision" MOD 10000 DIV 100) * 60 +<br>"[KVEZEITE] Time of the usage decision" MOD 10000 MOD 100                       |
| Ppk Class. Char                        | BW_CKF_CPQM02_009   | Calculated | <b>Formula:</b><br>(" [ZVDATUM] Date of the usage decision" - "[ZCOLLECT]") * 86400 - (" [KLSCOLHO]"<br>DIV 10000 * 60 + "[KLSCOLHO]" MOD 10000 DIV 100) * 60 + "[KLSCOLHO]" MOD 10000<br>MOD 100) + (" [KVEZEITE] Time of the usage decision" DIV 10000 * 60 +<br>"[KVEZEITE] Time of the usage decision" MOD 10000 DIV 100) * 60 +<br>"[KVEZEITE] Time of the usage decision" MOD 10000 MOD 100                                                                                                                                                  |
| Proportion Faulty                      | BW_CKF_CPQM02_021   | Calculated | <b>Formula:</b><br>'0NONCONFMNG' / '0SAMPS_TOTL'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Pp Class.Char                          | BW_CKF_CPQM02_022   | Calculated | <b>Formula:</b><br>'0IND_LWRLMT' * '0IND_UPPLMT' * (NODIM('K_UPPRIM') - NODIM('K_LWRLIM')) / 6 /<br>"[BW_CKF_CPQM02_002] Standard Deviation"                                                                                                                                                                                                                                                                                                                                                                                                       |

## Characteristics

| Location | Position | Info-object Name | Info-object Text   | Explanation (if needed) |
|----------|----------|------------------|--------------------|-------------------------|
| Free     |          | C_PLANT          | Plant              |                         |
| Free     | 1        | C_MATNR2         | Material           |                         |
| Free     |          | 0LOT_HERK        | Inspect.Lot Origin |                         |

|      |    |                      |                      |  |
|------|----|----------------------|----------------------|--|
| Free | 2  | C_BATCH2             | Batch                |  |
| Free | 3  | C_HSDAT              | Date of Manufacture  |  |
| Free |    | C_VERID              | Production Version   |  |
| Row  | 5  | OINSP_LOT            | Inspection Lot       |  |
| Free | 6  | C_ENSTEHD            | Date of Lot Creation |  |
| Row  | 7  | C_LTXA1              | Operation short text |  |
| Free |    | C_WORKCTR            | Work Center          |  |
| Row  | 9  | C_CHARTXT            | Insp. char text      |  |
| Free |    | C_SATZS              | Res.Status           |  |
| Free | 10 | C_DETALIE            | Number of the Ind.   |  |
| Row  | 11 | OTOLERANCE           | Tolerance value      |  |
| Free | 12 | C_RESULT             | Result               |  |
| Free |    | C_MRPRMKT            | Short Text(QAMR)     |  |
| Free |    | OMCHAR_PLNT          | Plant of Charact.    |  |
| Free |    | OMASTERCHAR          | Master Insp. Charac. |  |
| Free |    | C_ATTRI              | Attribute Res.(Glob) |  |
| Free |    | C_PRUDV              | Insp. Start Date     |  |
| Free |    | C_LSPASTD            | Insp StartDate QMLot |  |
| Free |    | C_PRUDT              | End Date of the Insp |  |
| Free |    | C_VDATUM             | Date of Code Used fo |  |
| Free |    | C_KOTEXT             | TaskList description |  |
| Free |    | OPLNNR               | Task list group      |  |
| Free |    | OINSP_LOT__C_KEYDATE | Key Date             |  |
| Row  |    | OICCHAR_UOM          | Unit of measurement  |  |
| Free |    | C_MBETG              | Insp.Result Val-Glob |  |

## Cells

## Conditions

| Condition Name | Active<br>By default | Key Figure<br>(Structure) | Operator | Value | Characteristic Assignment |
|----------------|----------------------|---------------------------|----------|-------|---------------------------|
|                |                      |                           |          |       |                           |
|                |                      |                           |          |       |                           |

## Exceptions

| Exception Name | Active<br>By default | Alert Level | Operator | Value       | Other parameters<br>(if different from default) |
|----------------|----------------------|-------------|----------|-------------|-------------------------------------------------|
| Ppk ok         | Yes                  | Good 1      | Between  | 133.000 - 0 |                                                 |
|                |                      |             |          |             |                                                 |

## Workflow history

This view shows the 5 most recent entries. The complete workflow log is available from the 'Document Activity' menu item.

| From Aug 18, 2020 to<br>Feb 17, 2021 | Actor                                                                                             | Type | Activity                                                                                                                                                                                                                           | Version |
|--------------------------------------|---------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|                                      | Rashmi PASUNURU and Anon,<br>Kasemvilas                                                           | Edit | multiple updates from  Rashmi PASUNURU and  Anon, Kasemvilas |         |
|                                      |  Rashmi PASUNURU | Edit | created the page at 3:02 pm                                                                                                                                                                                                        |         |