

# BW - QM - Statistics (Core Query)

<b>Description</b>	<i>BW-QM Statistics (Core Query)</i>
<b>Technical Name</b>	BW_QRY_CPQM02_0002
<b>Application</b>	QM
<b>Info-provider</b>	CPQM02
<b>Usage type</b>	<i>Direct Execution</i>
<b>Expected users</b>	

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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		

Rows/Columns	<p>Result Position</p> <p><b>Rows</b></p> <p><input type="radio"/> Above</p> <p><input checked="" type="radio"/> Below</p> <p><b>Columns</b></p> <p><input type="radio"/> Left</p> <p><input checked="" type="radio"/> Right</p> <p>Suppress Zeros</p> <p><b>Suppress Zeros</b></p> <p><input checked="" type="radio"/> Do Not Suppress</p> <p><input type="radio"/> Active</p> <p><input type="radio"/> Active (All Values = 0)</p> <p><b>Effect on</b></p> <p><input checked="" type="radio"/> Rows</p> <p><input type="radio"/> Columns</p> <p><input type="radio"/> Rows and Columns</p> <table border="1" data-bbox="332 535 511 625"> <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>	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	<p><b>Display of +/- Signs</b></p> <p><input checked="" type="radio"/> Before the Number -123.45</p> <p><input type="radio"/> After the Number 123.45-</p> <p><input type="radio"/> In Parentheses (123.45)</p> <p><b>Zero Value Display</b></p> <p>Display Zeros</p> <p>Zero with Curren ▾</p> <p>Show Zeros As...</p> <p>_____</p>																	
Planning	<p><b>Startup View</b></p> <p><input type="checkbox"/> Start Query in Change Mode</p> <p><b>Calculation of Inverse Formulas</b></p> <p>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.</p> <p><b>Calculation Mode</b></p> <p><input type="checkbox"/> Symmetrical Calculation Mode for Inverse Formulas</p>																	

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 A_002	C_PLANT__C_AUTH MA	Authorization with input 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, Optional)	VDATU_01	C_VDATUM	Selection Option	No	
End date of insp (Select Option, Optional)	PRUDT_01X	C_PRUDT	Selection Option	No	
Insp Start Date QM Lot (Select Option, Optional)	LSPAS_01	C_LSPASTD	Selection Option	No	
Insp Start Dat- Glob (Select Option, 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, Optional)	ENSTE_01	C_ENSTEHD	Selection Option	No	
Inspection Lot (Select option, Optional)	ZINSPL0T	OINSP_LOT	Selection Option	No	
Date of Manufacture (Selection Option, 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 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_TOTL	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_LOW	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)"  <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]" DIV 10000 * 60 + "[KLSCOLHO]" MOD 10000 DIV 100) * 60 + "[KLSCOLHO]" MOD 10000 MOD 100) + (" [KVEZEITE] Time of the usage decision" DIV 10000 * 60 + "[KVEZEITE] Time of the usage decision" MOD 10000 DIV 100) * 60 + "[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> "[BW_QRY_CPQM02_024] Maximum Result (Agreg partial Sample)"
Minimum Result	BW_CKF_CPQM02_019	Calculated	<b>Formula:</b> "[BW_CKF_CPQM02_023] Minimum Result (Agreg Partial Sample)"
Out of Spec (mean values /Sum include)	RCS_CPQM02_CDB_OOS	Calculated	<b>Formula:</b> '0NONCONFMNG' + ("[BW_CKF_CPQM02_017] Delay between the sample collec and the usage desicion (h)" > 'K_GRENZEO' OR '0SUM_OF_X' > 'K_GRENZEO')
Ppk Below Class Char	BW_CKF_CPQM02_007	Calculated	<b>Formula:</b> ("[ZVDATUM] Date of the usage decision" - "[ZENSTEHD] Date of the inspection lot creation") * 86400 - ("[KLESENTST] Time of inspection lot creation" DIV 10000 * 60 + "[KLESENTST] Time of inspection lot creation" MOD 10000 DIV 100) * 60 + "[KLESENTST] Time of inspection lot creation" MOD 10000 MOD 100) + ("[KVEZEITE] Time of the usage decision" DIV 10000 * 60 + "[KVEZEITE] Time of the usage decision" MOD 10000 DIV 100) * 60 + "[KVEZEITE] Time of the usage decision" MOD 10000 MOD 100
Ppk on Top Class .Char	BW_CKF_CPQM02_008	Calculated	<b>Formula:</b> ("[ZVDATUM] Date of the usage decision" - "[ZPRUEFDA] Date of the inspection start") * 86400 - ("[KQZEITV] Time of the inspection start" DIV 10000 * 60 + "[KQZEITV] Time of the inspection start" MOD 10000 DIV 100) * 60 + "[KQZEITV] Time of the inspection start" MOD 10000 MOD 100) + ("[KVEZEITE] Time of the usage decision" DIV 10000 * 60 + "[KVEZEITE] Time of the usage decision" MOD 10000 DIV 100) * 60 + "[KVEZEITE] Time of the usage decision" MOD 10000 MOD 100
Ppk Class. Char	BW_CKF_CPQM02_009	Calculated	<b>Formula:</b> ("[ZVDATUM] Date of the usage decision" - "[ZCOLLECT]") * 86400 - ([ "[KLSCOLHO]" DIV 10000 * 60 + "[KLSCOLHO]" MOD 10000 DIV 100) * 60 + "[KLSCOLHO]" MOD 10000 MOD 100) + ([ "[KVEZEITE] Time of the usage decision" DIV 10000 * 60 + "[KVEZEITE] Time of the usage decision" MOD 10000 DIV 100) * 60 + "[KVEZEITE] Time of the usage decision" MOD 10000 MOD 100
Proportion Faulty	BW_CKF_CPQM02_021	Calculated	<b>Formula:</b> '0NONCONFMNG' / '0SAMPS_TOTL'
Pp Class.Char	BW_CKF_CPQM02_022	Calculated	<b>Formula:</b> '0IND_LWRLMT' * '0IND_UPPLMT' * (NODIM('K_UPPRIM') - NODIM('K_LWRLIM')) / 6 / "[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 By default	Key Figure (Structure)	Operator	Value	Characteristic Assignment

## Exceptions

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