LG전자

유첨)제품공장별 정리

프로시져 설계서

**STEP**

**문서번호**

**작성자**

**작성일**

**TASK**

**STAGE**

이상훈C

2016.05.03

프로시져 설계서

ED\_진화적 전달

문서 이력

검토

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| 번호 | 검토 일자 | 개정 | 검토자 | 서명 |
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개정 기록

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| 번호 | 변경 일자 | 버전 | 변경 내용 | 작성자 | 승인자 |
| 1 | 2016-05-03 | V.1.0 | Initial Release | 이상훈C |  |
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| 22 |  |  |  |  |  |

목 차

[1. 개요 1](#_Toc442348355)

[1.1 Definitions 1](#_Toc442348356)

[1.2 기본 흐름 1](#_Toc442348357)

[2. 유첨)제품공장별 정리 1](#_Toc442348358)

[2.1 Procedure개요 1](#_Toc442348359)

[2.1.1 m\_opsmr\_sp\_factory\_rate 1](#_Toc442348360)

[2.2 Return Value 24](#_Toc442348361)

[2.3 Table and View Usage 25](#_Toc442348362)

# 개요

## Definitions

사용자가 원하는 데이터를 추출하기 위하여 지정된 조건을 임의로 입력하여 조회하고 그 결과를 보고서 엑셀파일로 생성하는 작업에 대해 정의한다.

1. 유첨)제품공장별 정리
2. 유첨)제품공장별 정리 조회.

## 기본 흐름

1) 가동율 COPY 시트 / 운영CAPA시트

DB2

EXCEL

**8000자 제한으로 인해서 엑셀에서 DB2를 호출 후 엑셀에서 MS-SQL로 적재한다..**

**현재월 이전까지의 데이터는 엑셀로 UPLOAD 한다.**

EXCEL

MS-SQL

**M\_OPSMR\_TB\_OP\_RATE**

**에 적재한다.**

# 유첨)제품공장별 정리

## Procedure개요

## 2.1.1 m\_opsmr\_sp\_factory\_rate

|  |  |
| --- | --- |
| **프로시져 설명** | 유첨)제품공장별 정리등을 조회함. |
| **관련 Application** |  |
| **사전 조건** | M\_OPSMR\_TB\_OP\_RATE 적재 |
| **상세 로직** | 1.과거데이타는 엑셀에서 기준월부터는 쿼리로 적재 후 그 결과를 프로시저로 호출하도록 함.  2. m\_opsmr\_sp\_factory\_rate 을 실행 후 보고서 생성함.  3. 호출 파라메터    (1) opsmr\_type : 기준/운영 구분  (2) base\_yyyymm : 조회기준일  4. 사용 쿼리  **m\_opsmr\_sp\_factory\_rate**  ALTER PROCEDURE [dbo].[m\_opsmr\_sp\_factory\_rate]  (  @opsmr\_type VARCHAR(5)  ,@base\_yyyymm VARCHAR(6)  )  AS  /\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  1. 프 로 젝 트 : M\_OPSMR  2. 프로그램 ID : m\_opsmr\_sp\_factory\_rate  3. 기 능 : DB2 기준가동률 및 운영가동률을 m\_opsmr\_sp\_factory\_rate  -- EXEC m\_opsmr\_sp\_factory\_rate @opsmr\_type, @base\_yyyymm  4. 관 련 화 면 :  버전 작 성 자 일 자 내 용  ---- --------- ---------- -----------------------------------------------  1.0 shlee 2016.04.14 최초작성  1.1 shlee 2016.04.15 KPI\_TYPE 엑셀개발자 요청에 의해 추가  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  DECLARE @vc\_pre\_13 AS VARCHAR(6);  DECLARE @vc\_start\_yyyymm AS VARCHAR(6);  SET NOCOUNT ON  SET @vc\_pre\_13 = CONVERT(VARCHAR(6), DATEADD(m,-12, CONVERT(DATETIME,@base\_yyyymm + '01')), 112); -- 전13월  SET @vc\_start\_yyyymm = SUBSTRING(@base\_yyyymm,1,4)+'01'; -- 누적년시작월 @vc\_start\_yyyymm  BEGIN  -- 월별가동률  SELECT '02.월별가동률' AS kpi\_type  ,prod.display\_name AS prod  ,sub.display\_name AS sub  ,MIN(sub.display\_enm) as sub\_enm  ,MIN(sub.display\_knm) as sub\_knm  ,MIN(prod.display\_enm) as prod\_enm  ,MIN(prod.display\_knm) as prod\_knm  ,a.kpi\_period\_code AS kpi  ,CASE WHEN SUM(a.production\_capa) = 0 THEN 0  ELSE SUM(a.production\_quantity) / SUM(a.production\_capa) END AS val  FROM m\_opsmr\_tb\_op\_rate(nolock) a  ,m\_opsmr\_tb\_op\_rate\_sub\_mst(nolock) sub  ,m\_opsmr\_tb\_op\_rate\_prod\_mst(nolock) prod  WHERE a.opsmr\_type = @opsmr\_type  AND a.base\_yyyymm = @base\_yyyymm  AND a.factory\_region1 = sub.mapping\_code  AND a.gbu\_code = prod.mapping\_code  AND sub.use\_flag = 'Y'  AND prod.use\_flag = 'Y'  AND a.kpi\_period\_code NOT LIKE '%TOT%'  GROUP BY prod.display\_name  ,sub.display\_name  ,a.kpi\_period\_code  UNION ALL  -- 요약  --SELECT '02.요약' AS kpi\_type  SELECT '02.월별가동률' AS kpi\_type  ,prod.display\_name AS prod  ,'요약' AS sub  ,'요약' as sub\_enm  ,'요약' as sub\_knm  ,MIN(prod.display\_enm) as prod\_enm  ,MIN(prod.display\_knm) as prod\_knm  ,kpi\_period\_code AS kpi  ,CASE WHEN SUM(production\_capa) = 0 THEN 0  ELSE SUM(production\_quantity) / SUM(production\_capa) END AS val  FROM m\_opsmr\_tb\_op\_rate(nolock) a  ,m\_opsmr\_tb\_op\_rate\_prod\_mst(nolock) prod  WHERE a.opsmr\_type = @opsmr\_type  AND a.base\_yyyymm = @base\_yyyymm  AND a.gbu\_code = prod.mapping\_code  AND prod.use\_flag = 'Y'  AND a.kpi\_period\_code NOT LIKE '%TOT%'  GROUP BY prod.display\_name  ,kpi\_period\_code  UNION ALL  -- 요약  --SELECT '02.요약' AS kpi\_type  SELECT '02.월별가동률' AS kpi\_type  ,prod.display\_name AS prod  ,'요약' AS sub  ,'요약' as sub\_enm  ,'요약' as sub\_knm  ,MIN(prod.display\_enm) as prod\_enm  ,MIN(prod.display\_knm) as prod\_knm  ,SUBSTRING(kpi\_period\_code,1,4)+'TOT' AS kpi  ,CASE WHEN SUM(production\_capa) = 0 THEN 0  ELSE SUM(production\_quantity) / SUM(production\_capa) END AS val  FROM m\_opsmr\_tb\_op\_rate(nolock) a  ,m\_opsmr\_tb\_op\_rate\_prod\_mst(nolock) prod  WHERE a.opsmr\_type = @opsmr\_type  AND a.base\_yyyymm = @base\_yyyymm  AND a.gbu\_code = prod.mapping\_code  AND prod.use\_flag = 'Y'  AND a.kpi\_period\_code NOT LIKE '%TOT%'  GROUP BY prod.display\_name  ,SUBSTRING(kpi\_period\_code,1,4)  UNION ALL  -- 전년대비  SELECT '04.전년대비' AS kpi\_type  ,a.prod  ,'요약' AS sub  ,'요약' as sub\_enm  ,'요약' as sub\_knm  ,a.prod\_enm  ,a.prod\_knm  ,'전년대비' AS kpi  ,ROUND(SUM(a.val1),2) - ROUND(SUM(a.val2),2) AS val  FROM (  SELECT prod.display\_name AS prod  ,MIN(prod.display\_enm) as prod\_enm  ,MIN(prod.display\_knm) as prod\_knm  ,CASE WHEN SUM(a.production\_capa) = 0 THEN 0  ELSE SUM(a.production\_quantity) / SUM(a.production\_capa) END AS val1  ,0 AS val2  FROM m\_opsmr\_tb\_op\_rate(nolock) a  ,m\_opsmr\_tb\_op\_rate\_sub\_mst(nolock) sub  ,m\_opsmr\_tb\_op\_rate\_prod\_mst(nolock) prod  WHERE a.opsmr\_type = @opsmr\_type  AND a.base\_yyyymm = @base\_yyyymm  AND a.kpi\_period\_code = @base\_yyyymm  AND a.factory\_region1 = sub.mapping\_code  AND a.gbu\_code = prod.mapping\_code  AND sub.use\_flag = 'Y'  AND prod.use\_flag = 'Y'  AND a.kpi\_period\_code NOT LIKE '%TOT%'  GROUP BY prod.display\_name  UNION ALL  SELECT prod.display\_name AS prod  ,MIN(prod.display\_enm) as prod\_enm  ,MIN(prod.display\_knm) as prod\_knm  ,0 AS val1  ,CASE WHEN SUM(a.production\_capa) = 0 THEN 0  ELSE SUM(a.production\_quantity) / SUM(a.production\_capa) END AS val2  FROM m\_opsmr\_tb\_op\_rate(nolock) a  ,m\_opsmr\_tb\_op\_rate\_sub\_mst(nolock) sub  ,m\_opsmr\_tb\_op\_rate\_prod\_mst(nolock) prod  WHERE a.opsmr\_type = @opsmr\_type  AND a.base\_yyyymm = @base\_yyyymm  AND a.kpi\_period\_code = @vc\_pre\_13  AND a.factory\_region1 = sub.mapping\_code  AND a.gbu\_code = prod.mapping\_code  AND sub.use\_flag = 'Y'  AND prod.use\_flag = 'Y'  AND a.kpi\_period\_code NOT LIKE '%TOT%'  GROUP BY prod.display\_name  ) a  GROUP BY a.prod  ,a.prod\_enm  ,a.prod\_knm  UNION ALL  -- 년별가동률  --SELECT '03.년별가동률' AS kpi\_type  SELECT '02.월별가동률' AS kpi\_type  ,prod.display\_name AS prod  ,sub.display\_name AS sub  ,MIN(sub.display\_enm) as sub\_enm  ,MIN(sub.display\_knm) as sub\_knm  ,MIN(prod.display\_enm) as prod\_enm  ,MIN(prod.display\_knm) as prod\_knm  ,SUBSTRING(a.kpi\_period\_code,1,4)+'TOT' AS kpi  ,CASE WHEN SUM(a.production\_capa) = 0 THEN 0  ELSE SUM(a.production\_quantity) / SUM(a.production\_capa) END AS val  FROM m\_opsmr\_tb\_op\_rate(nolock) a  ,m\_opsmr\_tb\_op\_rate\_sub\_mst(nolock) sub  ,m\_opsmr\_tb\_op\_rate\_prod\_mst(nolock) prod  WHERE a.opsmr\_type = @opsmr\_type  AND a.base\_yyyymm = @base\_yyyymm  AND a.factory\_region1 = sub.mapping\_code  AND a.gbu\_code = prod.mapping\_code  AND sub.use\_flag = 'Y'  AND prod.use\_flag = 'Y'  AND a.kpi\_period\_code NOT LIKE '%TOT%'  GROUP BY prod.display\_name  ,sub.display\_name  ,SUBSTRING(a.kpi\_period\_code,1,4)  UNION ALL  -- 전년대비  SELECT '04.전년대비' AS kpi\_type  ,a.prod  ,a.sub  ,a.sub\_enm  ,a.sub\_knm  ,a.prod\_enm  ,a.prod\_knm  ,'전년대비' AS kpi  ,ROUND(SUM(a.val1),2) - ROUND(SUM(a.val2),2) AS val  FROM (  SELECT prod.display\_name AS prod  ,sub.display\_name AS sub  ,MIN(sub.display\_enm) as sub\_enm  ,MIN(sub.display\_knm) as sub\_knm  ,MIN(prod.display\_enm) as prod\_enm  ,MIN(prod.display\_knm) as prod\_knm  ,CASE WHEN SUM(a.production\_capa) = 0 THEN 0  ELSE SUM(a.production\_quantity) / SUM(a.production\_capa) END AS val1  ,0 AS val2  FROM m\_opsmr\_tb\_op\_rate(nolock) a  ,m\_opsmr\_tb\_op\_rate\_sub\_mst(nolock) sub  ,m\_opsmr\_tb\_op\_rate\_prod\_mst(nolock) prod  WHERE a.opsmr\_type = @opsmr\_type  AND a.base\_yyyymm = @base\_yyyymm  AND a.kpi\_period\_code = @base\_yyyymm  AND a.factory\_region1 = sub.mapping\_code  AND a.gbu\_code = prod.mapping\_code  AND sub.use\_flag = 'Y'  AND prod.use\_flag = 'Y'  AND a.kpi\_period\_code NOT LIKE '%TOT%'  GROUP BY prod.display\_name  ,sub.display\_name  UNION ALL  SELECT prod.display\_name AS prod  ,sub.display\_name AS sub  ,MIN(sub.display\_enm) as sub\_enm  ,MIN(sub.display\_knm) as sub\_knm  ,MIN(prod.display\_enm) as prod\_enm  ,MIN(prod.display\_knm) as prod\_knm  ,0 AS val1  ,CASE WHEN SUM(a.production\_capa) = 0 THEN 0  ELSE SUM(a.production\_quantity) / SUM(a.production\_capa) END AS val2  FROM m\_opsmr\_tb\_op\_rate(nolock) a  ,m\_opsmr\_tb\_op\_rate\_sub\_mst(nolock) sub  ,m\_opsmr\_tb\_op\_rate\_prod\_mst(nolock) prod  WHERE a.opsmr\_type = @opsmr\_type  AND a.base\_yyyymm = @base\_yyyymm  AND a.kpi\_period\_code = @vc\_pre\_13  AND a.factory\_region1 = sub.mapping\_code  AND a.gbu\_code = prod.mapping\_code  AND sub.use\_flag = 'Y'  AND prod.use\_flag = 'Y'  AND a.kpi\_period\_code NOT LIKE '%TOT%'  GROUP BY prod.display\_name  ,sub.display\_name  ) a  GROUP BY a.prod  ,a.sub  ,a.sub\_enm  ,a.sub\_knm  ,a.prod\_enm  ,a.prod\_knm  UNION ALL  SELECT '01.생산비중' AS kpi\_type  ,a.prod  ,a.sub  ,a.sub\_enm  ,a.sub\_knm  ,a.prod\_enm  ,a.prod\_knm  ,'생산비중' AS kpi  ,CASE WHEN MAX(b.qty) = 0 THEN 0  ELSE SUM(a.qty) / MAX(b.qty) END AS val  FROM (SELECT prod.display\_name AS prod  ,sub.display\_name AS sub  ,MIN(sub.display\_enm) as sub\_enm  ,MIN(sub.display\_knm) as sub\_knm  ,MIN(prod.display\_enm) as prod\_enm  ,MIN(prod.display\_knm) as prod\_knm  ,SUM(production\_quantity) AS qty  FROM m\_opsmr\_tb\_op\_rate(nolock) a  ,m\_opsmr\_tb\_op\_rate\_sub\_mst(nolock) sub  ,m\_opsmr\_tb\_op\_rate\_prod\_mst(nolock) prod  WHERE a.opsmr\_type = @opsmr\_type  AND a.base\_yyyymm = @base\_yyyymm  AND a.kpi\_period\_code BETWEEN @vc\_start\_yyyymm AND @base\_yyyymm  AND a.factory\_region1 = sub.mapping\_code  AND a.gbu\_code = prod.mapping\_code  AND sub.use\_flag = 'Y'  AND prod.use\_flag = 'Y'  AND a.kpi\_period\_code NOT LIKE '%TOT%'  GROUP BY prod.display\_name  ,sub.display\_name  ) a  ,(SELECT prod.display\_name AS prod  ,MIN(prod.display\_enm) as prod\_enm  ,MIN(prod.display\_knm) as prod\_knm  ,SUM(production\_quantity) AS qty  FROM m\_opsmr\_tb\_op\_rate(nolock) a  ,m\_opsmr\_tb\_op\_rate\_prod\_mst(nolock) prod  WHERE a.opsmr\_type = @opsmr\_type  AND a.base\_yyyymm = @base\_yyyymm  AND a.kpi\_period\_code BETWEEN @vc\_start\_yyyymm AND @base\_yyyymm  AND a.gbu\_code = prod.mapping\_code  AND prod.use\_flag = 'Y'  AND a.kpi\_period\_code NOT LIKE '%TOT%'  GROUP BY prod.display\_name  ) b  WHERE a.prod = b.prod  GROUP BY a.prod  ,a.sub  ,a.sub\_enm  ,a.sub\_knm  ,a.prod\_enm  ,a.prod\_knm  ;  END |
| **오퍼레이션** |  |
| **에러처리** | 에러 발생시 프로그램 내에서 처리하지 않고 공통모듈 프로그램에서 처리함 |
| **사후 조건** |  |

## 

## 2.2 Return Value

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Argument | Prompt | Value Set | Default Type | Default Value | Option |
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## 

## 2.3 Table and View Usage

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table Name | Select | Insert | Update | Delete |
| M\_OPSMR\_TB\_OP\_RATE | Y |  |  |  |
| M\_OPSMR\_TB\_OP\_RATE\_PROD\_MST | Y |  |  |  |
| M\_OPSMR\_TB\_OP\_RATE\_SUB\_MST | Y |  |  |  |
|  |  |  |  |  |