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| Date | Version | Description | Author |
| 2010/2/24 | 1.0 | Created | 黃棋新 |
| 2010/9/10 | 1.1 | 調整SQL | 金生 |

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| 修改日期 | 版本 | 修改原因 | 修改人姓名 | 立案單號 |
| 2019-12-11 | 2 | 內部改善：PMD | 陳德仁 | 191114000671 |

1. 程式功能概要說明：
   1. 程式功能：主約理賠率總計。
   2. 程式名稱：UCAAH2\_0216.java。
   3. 作業方式：BATCH
   4. 執行週期：每月
   5. 概要說明：主約理賠率總計。
   6. 處理人員：System Timer。
2. 相關檔案（TABLE）：

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| 項次 | 中文說明 | 檔案名稱 |
|  | 主約理賠率—支出 | DTAAH214 |
|  | 主約理賠率—收入 | DTAAH215 |
|  | 主約約理賠率 | DTAAH216 |

1. 相關模組：
   1. 批次作業件數紀錄模組CountManager.java。
   2. 異常訊息記錄模組ErrorLog.java。
2. 參數說明：
   1. 傳入參數控制：
      1. 取得資料年月
         1. 若沒有傳入參數時
            1. 資料年月 等於 系統日期上個月的年月(ex.201001)
         2. 若傳入2個參數或2個參數以上時
            1. 資料年月 等於 第1個參數的日期年月 (ex.201001)
            2. 當有第2個參數時，只輸出參數1 資料年月 的CSV檔案即可。
3. 程式內容：。
   1. 先清除已經存在當期 資料年月 的資料
      1. DELETE FROM DBAA.DTAAH216 WHERE DATA\_YM = '資料年月' WITH UR。
      2. 若刪不到資料視為正常。
   2. QUERY1:
      1. WITH H214\_5 AS (  
         SELECT   
         H214.DATA\_YM,   
         H214.PROD\_TYPE,   
         H214.PERIOD,  
         H214.MKT\_DEPT\_NO,   
         H214.MKT\_DEPT\_NAME,   
         SUM (H214.PAY\_AMT) AS PAY\_AMT   
         FROM DBAA.DTAAH214 H214   
         WHERE   
         H214.PROD\_TYPE = '5'   
         GROUP BY   
         H214.DATA\_YM,  
         H214.PROD\_TYPE,  
         H214.PERIOD,   
         H214.MKT\_DEPT\_NO,   
         H214.MKT\_DEPT\_NAME  
         ),   
         H214\_67 AS (  
         SELECT   
         H214.DATA\_YM,  
         '6' AS PROD\_TYPE,   
         H214.PERIOD,   
         H214. MKT\_DEPT\_NO,   
         H214.MKT\_DEPT\_NAME,   
         SUM (H214.PAY\_AMT) AS PAY\_AMT   
         FROM DBAA.DTAAH214 H214   
         WHERE   
         H214.PROD\_TYPE IN ('6', '7')   
         GROUP BY   
         H214.DATA\_YM,  
         H214.PERIOD,  
         H214.MKT\_DEPT\_NO,  
         H214.MKT\_DEPT\_NAME  
         ),  
         H215\_5 AS (  
         SELECT   
         H215.DATA\_YM,   
         H215.PROD\_TYPE,   
         H215.PERIOD,   
         H215. MKT\_DEPT\_NO,   
         H215.MKT\_DEPT\_NAME,   
         SUM (H215.PREM) AS PREM   
         FROM DBAA.DTAAH215 H215   
         WHERE   
         H215.PROD\_TYPE = '5'   
         GROUP BY   
         H215.DATA\_YM,   
         H215.PROD\_TYPE,   
         H215.PERIOD,   
         H215.MKT\_DEPT\_NO,   
         H215.MKT\_DEPT\_NAME  
         ),   
         H215\_67 AS (  
         SELECT   
         H215.DATA\_YM,   
         '6' AS PROD\_TYPE,   
         H215.PERIOD,   
         H215.MKT\_DEPT\_NO,   
         H215.MKT\_DEPT\_NAME,   
         SUM (H215.PREM) AS PREM   
         FROM DBAA.DTAAH215 H215   
         WHERE   
         H215.PROD\_TYPE IN ('6', '7')   
         GROUP BY   
         H215.DATA\_YM,   
         H215.PERIOD,   
         H215.MKT\_DEPT\_NO,   
         H215.MKT\_DEPT\_NAME  
         )   
         SELECT   
         H215\_5.DATA\_YM,   
         H215\_5.PERIOD,   
         H215\_5.MKT\_DEPT\_NO,   
         H215\_5.MKT\_DEPT\_NAME,   
         H214\_5.PAY\_AMT AS PAY\_AMT\_1,   
         H215\_5.PREM AS PREM\_1,   
         ROUND ( (DECIMAL(H214\_5.PAY\_AMT) \* 100 / DECIMAL(H215\_5.PREM)), 4) AS RATIO\_1,   
         H214\_67.PAY\_AMT AS PAY\_AMT\_2,   
         H215\_67.PREM AS PREM\_2,   
         ROUND ( (DECIMAL(H214\_67.PAY\_AMT) \* 100 / DECIMAL(H215\_67.PREM)), 4) AS RATIO\_2,  
         (H214\_5.PAY\_AMT + H214\_67.PAY\_AMT) AS PAY\_AMT\_3,   
         ( H215\_5.PREM + H215\_67.PREM) AS PREM\_3,   
         ROUND ( (DECIMAL (H214\_5.PAY\_AMT + H214\_67.PAY\_AMT) \* 100 / DECIMAL (H215\_5.PREM + H215\_67.PREM)), 4) AS RATIO\_3   
         FROM H215\_5   
         LEFT JOIN H214\_5   
         ON H215\_5.DATA\_YM = H214\_5.DATA\_YM   
         AND H215\_5.MKT\_DEPT\_NO = H214\_5.MKT\_DEPT\_NO   
         AND H215\_5.MKT\_DEPT\_NAME = H214\_5.MKT\_DEPT\_NAME   
         AND H215\_5.PERIOD = H214\_5.PERIOD   
         LEFT JOIN H215\_67   
         ON H215\_5.DATA\_YM = H215\_67.DATA\_YM   
         AND H215\_5.MKT\_DEPT\_NO = H215\_67.MKT\_DEPT\_NO   
         AND H215\_5.MKT\_DEPT\_NAME = H215\_67.MKT\_DEPT\_NAME   
         AND H215\_5.PERIOD = H215\_67.PERIOD   
         LEFT JOIN H214\_67   
         ON H215\_5.DATA\_YM = H214\_67.DATA\_YM   
         AND H215\_5.MKT\_DEPT\_NO = H214\_67.MKT\_DEPT\_NO   
         AND H215\_5.MKT\_DEPT\_NAME = H214\_67.MKT\_DEPT\_NAME   
         AND H215\_5.PERIOD = H214\_67.PERIOD   
         WITH UR
   3. 寫入傷害、健康附約理賠率(DTAAH213)
      1. 輸出欄位：
         1. DTAAH216.DTAT\_YM = 資料年月
         2. DTAAH216.PERIOD = 2.1.PERIOD
         3. DTAAH216.MKT\_DEPT\_NO = 2.1.MKT\_DEPT\_NO
         4. DTAAH216.MKT\_DEP\_NAME = 2.1.MKT\_DEPT\_NAME
         5. DTAAH216.PAY\_AMT\_1 = 2.1.PAY\_AMT\_1
         6. DTAAH216.PREM\_1 = 2.1.PREM\_1
         7. DTAAH216.RATIO\_1 = 2.1.RATIO\_1
         8. DTAAH216.PAY\_AMT\_2 = 2.1.PAY\_AMT\_2
         9. DTAAH216.PREM\_2 = 2.1.PREM\_2
         10. DTAAH216.RATIO\_2 = 2.1.RATIO\_2
         11. DTAAH216.PAY\_AMT\_3 = 2.1.PAY\_AMT\_3
         12. DTAAH216.PREM\_3 = 2.1.PREM\_3
         13. DTAAH216.RATIO\_3 = 2.1.RATIO\_3
   4. 產生統計資料CSV檔案，總共會產生三的檔案
      1. QUERY：

SELECT PERIOD

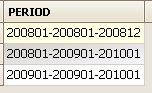
FROM DBAA.DTAAH216

WHERE DATA\_YM = '資料年月'

GROUP BY PERIOD

WITH UR

* + 1. 該資料年月三個組別分別代表的KEY值:如下圖



* + 1. 逐筆取出三個組別分別代表的KEY值，稱組別KEY值，逐筆產生該組的文字檔
       1. 產生文字檔：
          1. 標題列：

區部名稱,傳統壽險支出,傳統壽險收入,傳統壽險理賠率,健康險支出,健康險收入,健康險理賠率,全部支出,全部收入,全部理賠率

* + - * 1. 資料主體

QUERY 語法，資料用逗點附號隔開：

SELECT MKT\_DEPT\_NAME, PAY\_AMT\_1, PREM\_1, RATIO\_1, PAY\_AMT\_2, PREM\_2, RATIO\_2

, PAY\_AMT\_3, PREM\_3, RATIO\_3

FROM DBAA.DTAAH216

WHERE DATA\_YM = '資料年月' AND PERIOD = '組別KEY值' WITH UR

* + - * 1. RATIO\_1、RATIO\_2、RATIO\_3 為百分比資料，小數點二位四捨五入，加 % 符號，例如:36.08%
        2. 檔名：” 長年期傳統壽險與健康險理賠率(“+ 組別KEY值 +”).csv” (ex. 長年期傳統壽險與健康險理賠率(200801-200801-200812).csv)
        3. 筆數約35筆左右。
        4. 檔名已存在時覆寫。