**TÀI LIỆU MÔ TẢ CHUYỂN ĐỔI STORE - RPT.MERGE\_SHC\_SETT\_IBFT\_200 (BẢN CẬP NHẬT)**

Chuyển MERGE → UPDATE + INSERT | Nguồn: V\_ISOMESSAGE\_TMP\_TURN\_0200 | Font: Times New Roman

**1. Tên store**

RPT.MERGE\_SHC\_SETT\_IBFT\_200 (Oracle → TiDB/Java).

**1.1 Phân tích store (theo step)**

1. Step 1: Ghi log bắt đầu (ERR\_EX).
2. Step 2: UPDATE đồng bộ – JOIN theo khóa ghép PAN + ORIGTRACE + TERMID + LOCAL\_DATE(mmdd) + LOCAL\_TIME + ACQUIRER; cập nhật RESPCODE/TXNSRC theo chênh lệch số tiền và map CONTENT\_FUND từ IBFT\_INFO.
3. Step 3: INSERT (NOT EXISTS) – thêm bản ghi còn thiếu từ view V\_ISOMESSAGE\_TMP\_TURN\_0200 sau khi dedup (ưu tiên TNX\_STAMP mới nhất trên cùng khóa).
4. Step 4+: (tuỳ dự án) các bước hậu xử lý/chuẩn hóa khác nếu có.
5. Step 6: Ghi log kết thúc (ERR\_EX).
6. Step 7: Ghi log lỗi (ERR\_EX) trong khối EXCEPTION.

**1.2 Ghi chú mapping Oracle → TiDB (rút gọn)**

|  |  |
| --- | --- |
| Oracle | TiDB/MySQL |
| MERGE INTO ... | Tách thành UPDATE JOIN + INSERT NOT EXISTS |
| TRUNC/TO\_DATE/TO\_CHAR | Dùng STR\_TO\_DATE/DATE\_FORMAT/CURDATE; đã áp dụng trong câu lệnh INSERT (%%Y%%m%%d). |
| ROWNUM (dedup) | Dùng ROW\_NUMBER() OVER(PARTITION BY ... ORDER BY TNX\_STAMP DESC) |

**1.3 Câu lệnh SQL thay thế (UPDATE + INSERT)**

**Step 2 – UPDATE (đúng theo yêu cầu)**

UPDATE SHCLOG\_SETT\_IBFT A  
JOIN V\_ISOMESSAGE\_TMP\_TURN\_0200 B  
 ON A.PAN = B.card\_no\_trim  
 AND A.ORIGTRACE = B.trace\_no\_num  
 AND A.TERMID = B.term\_id  
 AND DATE\_FORMAT(A.LOCAL\_DATE, '%%m%%d') = B.local\_mmdd  
 AND A.LOCAL\_TIME = B.local\_time\_num  
 AND A.ACQUIRER = B.acq\_id\_num  
SET  
 A.RESPCODE = CASE  
 WHEN A.AMOUNT <> ROUND(B.amount\_raw\_num/100, 0) AND A.RESPCODE = 0  
 THEN 116 ELSE A.RESPCODE  
 END,  
 A.TXNSRC = CASE  
 WHEN A.AMOUNT <> ROUND(B.amount\_raw\_num/100, 0)  
 THEN 'RC=99' ELSE A.TXNSRC  
 END,  
 A.CONTENT\_FUND = B.IBFT\_INFO;

**Step 3 – INSERT NOT EXISTS + dedup (đúng theo yêu cầu)**

INSERT INTO SHCLOG\_SETT\_IBFT (  
 PAN, ORIGTRACE, TERMID, LOCAL\_DATE, LOCAL\_TIME, ACQUIRER,  
 DATA\_ID, PPCODE, MSGTYPE, PCODE, AMOUNT, ACQ\_CURRENCY\_CODE, TRACE,  
 SETTLEMENT\_DATE, ISSUER, RESPCODE, MERCHANT\_TYPE, MERCHANT\_TYPE\_ORIG, AUTHNUM,  
 SETT\_CURRENCY\_CODE, ADD\_INFO, ACCTNUM, ISS\_CURRENCY\_CODE, ORIGISS,  
 ORIGRESPCODE, CH\_CURRENCY\_CODE, ACQUIRER\_FE, ACQUIRER\_RP, ISSUER\_FE, ISSUER\_RP,  
 PCODE2, FROM\_SYS, BB\_BIN, BB\_BIN\_ORIG, CONTENT\_FUND, TXNSRC, ACQ\_COUNTRY,  
 POS\_ENTRY\_CODE, POS\_CONDITION\_CODE, ADDRESPONSE, MVV, F4, F5, F6, F49,  
 SETTLEMENT\_CODE, SETTLEMENT\_RATE, ISS\_CONV\_RATE, TCC,  
 refnum, trandate, trantime, ACCEPTORNAME, TERMLOC, F15, pcode\_orig,  
 ACCOUNT\_NO, DEST\_ACCOUNT  
)  
SELECT  
 B.card\_no\_trim,  
 B.trace\_no\_num,  
 B.term\_id,  
 STR\_TO\_DATE(CONCAT(YEAR(CURDATE()), B.local\_mmdd), '%%Y%%m%%d'),  
 B.local\_time\_num,  
 B.acq\_id\_num,  
  
 1,  
 CAST(B.PROC\_CODE AS UNSIGNED),  
 '210',  
 CAST(B.PROC\_CODE AS UNSIGNED),  
 B.amount\_ins\_num,  
 704,  
 B.trace2\_num,  
  
 STR\_TO\_DATE(CONCAT(YEAR(CURDATE()), LPAD(B.SETTLE\_DATE,4,'0')), '%%Y%%m%%d'),  
 B.acq\_id\_num,  
 CASE  
 WHEN B.BEN\_ID = '971133' AND B.DEST\_ACCOUNT LIKE 'NPDC%%' THEN 68  
 WHEN B.SERVICE\_CODE = 'QR\_PUSH' THEN 68  
 WHEN B.BEN\_ID = '971100' AND B.TCC = '99' THEN 68  
 WHEN TRIM(B.ISS\_ID) IN ('980471','980472') THEN 68  
 ELSE 0  
 END,  
 6011,  
 CAST(B.MCC AS UNSIGNED),  
 B.APPROVAL\_CODE,  
 704,  
 B.ADD\_INFO,  
 CONCAT(IFNULL(B.ACCOUNT\_NO,' '), '|', IFNULL(B.DEST\_ACCOUNT,'')),  
 704,  
 CASE  
 WHEN TRIM(B.ISS\_ID) = '980471' THEN 980471  
 WHEN TRIM(B.ISS\_ID) = '980475' THEN 980478  
 WHEN B.acq\_id\_num = 191919 THEN 970459  
 WHEN B.acq\_id\_num = 970415 THEN 970489  
 ELSE MAP\_IBFT\_ACQ\_ID(B.acq\_id\_num)  
 END,  
 '97',  
 704,  
 NULL, NULL, NULL, NULL,  
 CASE  
 WHEN B.acq\_id\_num = 191919 THEN 970459  
 WHEN B.acq\_id\_num = 970415 THEN 970489  
 ELSE MAP\_IBFT\_ACQ\_ID(B.acq\_id\_num)  
 END,  
 'IBT',  
 CASE  
 WHEN TRIM(B.ISS\_ID) = '980472' THEN 980471  
 WHEN TRIM(B.ISS\_ID) = '980474' THEN 980478  
 WHEN B.BEN\_ID IS NOT NULL AND B.PROC\_CODE IN ('912020','910020')  
 THEN GET\_IBT\_BIN(B.BEN\_ID)  
 ELSE GET\_IBT\_BIN(SUBSTR(B.DEST\_ACCOUNT, 1, 6))  
 END,  
 CASE  
 WHEN B.BEN\_ID IN (SELECT TGTT\_ID FROM TGTT\_20) THEN TO\_NUMBER\_BNV(B.BEN\_ID)  
 WHEN TRIM(B.ISS\_ID) IN ('980472','980474','980475')  
 THEN CASE WHEN B.BEN\_ID IS NOT NULL AND B.PROC\_CODE IN ('912020','910020')  
 THEN GET\_IBT\_BIN(B.BEN\_ID)  
 ELSE GET\_IBT\_BIN(SUBSTR(B.DEST\_ACCOUNT,1,6)) END  
 ELSE TO\_NUMBER\_BNV(B.BEN\_ID)  
 END,  
 B.IBFT\_INFO,  
 'MTI=200',  
 B.ACQ\_COUNTRY, B.POS\_ENTRY\_CODE, B.POS\_CONDITION\_CODE, B.ADDRESPONSE, B.MVV,  
 B.f4\_num, B.f5\_num, B.f6\_num, B.F49,  
 B.SETTLEMENT\_CODE, B.SETTLEMENT\_RATE, B.ISS\_CONV\_RATE, B.TCC,  
 B.REF\_NO, DATE(B.TNX\_STAMP), DATE\_FORMAT(B.TNX\_STAMP, '%%H%%i%%s'),  
 B.CARD\_ACCEPT\_NAME\_LOCATION, B.CARD\_ACCEPT\_ID\_CODE,  
 NULL, CAST(B.PROC\_CODE AS UNSIGNED),  
 B.ACCOUNT\_NO, B.DEST\_ACCOUNT  
FROM (  
 /\* dedup nguồn: chọn 1 dòng/khóa, ưu tiên TNX\_STAMP mới nhất \*/  
 SELECT \*  
 FROM (  
 SELECT  
 card\_no\_trim, trace\_no\_num, term\_id, local\_mmdd, local\_time\_num, acq\_id\_num,  
 MTI, BEN\_ID, SERVICE\_CODE, ISS\_ID, PROC\_CODE, IBFT\_INFO,  
 ACQ\_COUNTRY, POS\_ENTRY\_CODE, POS\_CONDITION\_CODE, ADDRESPONSE, MVV,  
 F4, F5, F6, F49,  
 SETTLEMENT\_CODE, SETTLEMENT\_RATE, ISS\_CONV\_RATE, TCC,  
 REF\_NO, TNX\_STAMP, CARD\_ACCEPT\_NAME\_LOCATION, CARD\_ACCEPT\_ID\_CODE,  
 SETTLE\_DATE, ACCOUNT\_NO, DEST\_ACCOUNT, MCC, APPROVAL\_CODE, ADD\_INFO,  
 amount\_ins\_num, f4\_num, f5\_num, f6\_num, trace2\_num,  
 ROW\_NUMBER() OVER (  
 PARTITION BY card\_no\_trim, trace\_no\_num, term\_id, local\_mmdd, local\_time\_num, acq\_id\_num  
 ORDER BY TNX\_STAMP DESC  
 ) rn  
 FROM V\_ISOMESSAGE\_TMP\_TURN\_0200  
 ) t  
 WHERE t.rn = 1  
) B  
WHERE NOT EXISTS (  
 SELECT 1  
 FROM SHCLOG\_SETT\_IBFT A  
 WHERE A.PAN = B.card\_no\_trim  
 AND A.ORIGTRACE = B.trace\_no\_num  
 AND A.TERMID = B.term\_id  
 AND DATE\_FORMAT(A.LOCAL\_DATE,'%%m%%d') = B.local\_mmdd  
 AND A.LOCAL\_TIME = B.local\_time\_num  
 AND A.ACQUIRER = B.acq\_id\_num  
);