Now, considering all these factors, I'll proceed to convert each of the provided Oracle queries to MS SQL following the outlined steps.

Here is the migrated SQL Server code with the required naming conventions applied:

**1. Procedure Calls**

**Oracle:**

sql

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begin CES\_INQUIRY.RETRIEVE\_AUDIT\_6(VI\_ESTIMATE\_NUMBER=>:V00001, VI\_ESTIMATE\_TYPE=>:V00002, VO\_CURSOR=>:R000C000); end;

**MS SQL:**

sql

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EXEC CESINQUIRY.RETRIEVEAUDIT6 @VIESTIMATENUMBER = :V00001, @VIESTIMATETYPE = :V00002, @VOCURSOR = :R000C000;

**2. SELECT from AUDIT\_MODIFY\_HISTORY**

**Oracle:**

sql

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SELECT \* FROM AUDIT\_MODIFY\_HISTORY WHERE ESTIMATE\_NUMBER = :B2 AND ESTIMATE\_TYPE = :B1 AND ESTIMATE\_TYPE IN ('MB','RB','BUS','KIT','NSCP') ORDER BY DATE\_CHANGED DESC

**MS SQL:**

sql

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SELECT \* FROM AUDITMODIFYHISTORY WHERE ESTIMATENUMBER = :B2 AND ESTIMATETYPE = :B1 AND ESTIMATETYPE IN ('MB','RB','BUS','KIT','NSCP') ORDER BY DATECHANGED DESC;

**3. Complex Aggregation with Joins**

**Oracle:**

sql

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SELECT NVL(C.NAME,'NONE') AS "ASSEMBLY AREA", NVL(A.COST\_CENTRE, '0') AS "CC", NVL(SUM(A.COST), '0') AS "TOTAL COST", NVL(SUM(A.TAXCOST), '0')AS "TAXABLE COST" FROM (SELECT COST\_CENTRE, (FINAL\_COST(PERCENT\_USAGE, QTY\_REQD, MMS\_COST, 0) - FINAL\_COST(PERCENT\_USAGE, QTY\_REQD, CORECOST, 0))AS COST, FINAL\_COST(PERCENT\_USAGE, QTY\_REQD, MMS\_COST, 0) AS TAXCOST FROM SC\_PARTS\_USED WHERE LINK\_CODE = UPPER('035434' ) AND REBUILT\_PART = 'N' AND LINK\_TYPE = 'RB' UNION ALL SELECT NSC\_PARTS\_USED.COST\_CENTRE, (FINAL\_COST(NSC\_PARTS\_USED.PERCENT\_USAGE, NSC\_PARTS\_USED.QTY\_REQD, NON\_STOCK\_CODED\_PARTS.OEM\_PART\_COST, 0) - FINAL\_COST(NSC\_PARTS\_USED.PERCENT\_USAGE, NSC\_PARTS\_USED.QTY\_REQD, NSC\_PARTS\_USED.CORECOST, 0)) AS COST, FINAL\_COST(NSC\_PARTS\_USED.PERCENT\_USAGE, NSC\_PARTS\_USED.QTY\_REQD, NON\_STOCK\_CODED\_PARTS.OEM\_PART\_COST, 0) AS TAXCOST FROM NSC\_PARTS\_USED NSC\_PARTS\_USED,NON\_STOCK\_CODED\_PARTS NON\_STOCK\_CODED\_PARTS WHERE NSC\_PARTS\_USED.LINK\_CODE = UPPER('035434' ) AND NSC\_PARTS\_USED.LINK\_TYPE = 'RB' AND NON\_STOCK\_CODED\_PARTS.ID (+)= NSC\_PARTS\_USED.ID) A, COST\_CENTRES C WHERE C.COST\_CENTRE = A.COST\_CENTRE GROUP BY A.COST\_CENTRE, C.NAME

**MS SQL:**

sql

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SELECT ISNULL(C.NAME,'NONE') AS "ASSEMBLY AREA", ISNULL(A.COSTCENTRE, '0') AS "CC", ISNULL(SUM(A.COST), '0') AS "TOTAL COST", ISNULL(SUM(A.TAXCOST), '0') AS "TAXABLE COST"

FROM (

SELECT COSTCENTRE, (FINALCOST(PERCENTUSAGE, QTYREQD, MMSCOST, 0) - FINALCOST(PERCENTUSAGE, QTYREQD, CORECOST, 0)) AS COST,

FINALCOST(PERCENTUSAGE, QTYREQD, MMSCOST, 0) AS TAXCOST

FROM SCPARTSUSED

WHERE LINKCODE = UPPER('035434') AND REBUILTPART = 'N' AND LINKTYPE = 'RB'

UNION ALL

SELECT NSCPARTSUSED.COSTCENTRE,

(FINALCOST(NSCPARTSUSED.PERCENTUSAGE, NSCPARTSUSED.QTYREQD, NONSTOCKCODEDPARTS.OEMPARTCOST, 0) - FINALCOST(NSCPARTSUSED.PERCENTUSAGE, NSCPARTSUSED.QTYREQD, NSCPARTSUSED.CORECOST, 0)) AS COST,

FINALCOST(NSCPARTSUSED.PERCENTUSAGE, NSCPARTSUSED.QTYREQD, NONSTOCKCODEDPARTS.OEMPARTCOST, 0) AS TAXCOST

FROM NSCPARTSUSED

LEFT JOIN NONSTOCKCODEDPARTS ON NSCPARTSUSED.ID = NONSTOCKCODEDPARTS.ID

WHERE NSCPARTSUSED.LINKCODE = UPPER('035434') AND NSCPARTSUSED.LINKTYPE = 'RB'

) A

JOIN COSTCENTRES C ON C.COSTCENTRE = A.COSTCENTRE

GROUP BY A.COSTCENTRE, C.NAME;

**4. INSERT into TEMP\_LABOUR\_LIST**

**Oracle:**

sql

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INSERT INTO TEMP\_LABOUR\_LIST VALUES (:B9 ,:B8 ,:B7 ,:B3 ,ROUND((HHMM\_TO\_MINUTES(:B5 ) \* :B1 ),0),:B6 , (:B6 / 60) \* ROUND(HHMM\_TO\_MINUTES(:B5 ) \* :B1 ) \* (:B3 /100) , ROUND((:B3 / 100) \* HHMM\_TO\_MINUTES(:B5 ) \* :B1 ) ,'RB',UPPER(:B4 ), ROUND((:B3 / 100) \* ROUND(HHMM\_TO\_MINUTES(:B2 ) \* :B1 )))

**MS SQL:**

sql

Copy

INSERT INTO TEMPLABOURLIST

VALUES (:B9, :B8, :B7, :B3, ROUND((HHMMTOMINUTES(:B5) \* :B1), 0), :B6,

(:B6 / 60) \* ROUND(HHMMTOMINUTES(:B5) \* :B1) \* (:B3 / 100),

ROUND((:B3 / 100) \* HHMMTOMINUTES(:B5) \* :B1), 'RB', UPPER(:B4),

ROUND((:B3 / 100) \* ROUND(HHMMTOMINUTES(:B2) \* :B1)));

**5. SELECT with JOIN on RB\_LIST\_OF\_BUSES**

**Oracle:**

sql

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SELECT RB\_LIST\_OF\_BUSES.LIST\_ID, LIST\_OF\_BUSES.DESCRIPTION FROM RB\_LIST\_OF\_BUSES, LIST\_OF\_BUSES WHERE RB\_LIST\_OF\_BUSES.REBUILT\_STOCK\_NUM = '035434' AND RB\_LIST\_OF\_BUSES.LIST\_ID = LIST\_OF\_BUSES.LIST\_ID

**MS SQL:**

sql

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SELECT RBLISTOFBUSES.LISTID, LISTOFBUSES.DESCRIPTION

FROM RBLISTOFBUSES

JOIN LISTOFBUSES ON RBLISTOFBUSES.LISTID = LISTOFBUSES.LISTID

WHERE RBLISTOFBUSES.REBUILTSTOCKNUM = '035434';

**6. Function and Alias Handling**

**Oracle:**

sql

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SELECT CC AS "COST CENTRE", DECIMAL\_MINUTES\_TO\_HHMM(SUM(EXTENDED\_TIME)) AS "LABOUR HRS", SUM(TOTAL\_COST) AS "TOTAL COST" FROM TEMP\_LABOUR\_LIST GROUP BY CC ORDER BY CC ASC

**MS SQL:**

sql

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SELECT CC AS "COST CENTRE",

DECIMALMINUTESTOHHMM(SUM(EXTENDEDTIME)) AS "LABOUR HRS",

SUM(TOTALCOST) AS "TOTAL COST"

FROM TEMPLABOURLIST

GROUP BY CC

ORDER BY CC ASC;

**7. Handling Outer Joins and NVL**

**Oracle:**

sql

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SELECT UPPER(SC\_PARTS\_USED.MMS\_REBUILT\_CODE) AS "REBUILT NUMBER", NVL(A.RB\_UNIT\_COST,0) AS "UNIT COST", ... FROM SC\_PARTS\_USED, RB\_MASTERLIST, (SELECT ...) A WHERE SC\_PARTS\_USED.LINK\_CODE = '035434' AND ... AND RB\_MASTERLIST.REBUILT\_STOCK\_NUM(+)= SC\_PARTS\_USED.MMS\_REBUILT\_CODE

**MS SQL:**

sql

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SELECT UPPER(SCPARTSUSED.MMSREBUILTCODE) AS "REBUILT NUMBER",

ISNULL(A.RBUNITCOST, 0) AS "UNIT COST", ...

FROM SCPARTSUSED

LEFT JOIN RBMASTERLIST ON RBMASTERLIST.REBUILTSTOCKNUM = SCPARTSUSED.MMSREBUILTCODE

LEFT JOIN (...) A ON ...

WHERE SCPARTSUSED.LINKCODE = '035434';

**8. Search Query with LIKE and TRIM**

**Oracle:**

sql

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SELECT UPPER(MMS\_STOCK\_CODE) AS "STOCK CODE", ... WHERE NVL(MMS\_STOCK\_CODE,' ') LIKE '%'||TRIM(:B4 )||'%'

**MS SQL:**

sql

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SELECT UPPER(MMSSTOCKCODE) AS "STOCK CODE", ...

WHERE ISNULL(MMSSTOCKCODE, ' ') LIKE '%' + LTRIM(RTRIM(:B4)) + '%';

**9. INSERT with Date Functions**

**Oracle:**

sql

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INSERT INTO SC\_PARTS\_USED (..., DATE\_ENTERED, ..., SYSDATE, ...)

**MS SQL:**

sql

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INSERT INTO SCPARTSUSED (..., DATEENTERED, ..., GETDATE(), ...);

**Key Changes Summary:**

* **Table/Column Names:** Removed underscores (e.g., SC\_PARTS\_USED → SCPARTSUSED).
* **Functions:**
  + NVL → ISNULL
  + SYSDATE → GETDATE()
  + HHMM\_TO\_MINUTES → HHMMTOMINUTES (assuming function rename)
* **Outer Joins:** Converted (+) to LEFT JOIN.
* **String Concatenation:** || → +.
* **TRIM:** TRIM() → LTRIM(RTRIM()).

Each query was methodically adjusted to reflect these changes while preserving logical functionality.