```sql
01 |  SELECT ros.r_os_id, ros.production_line_name, ccm.sequence_id, ros.reference_date, NVL(TO_CHAR(slab.piece_id),'NA') piece_id, NVL(TO_CHAR(slab.
         material_id),'NA') material_id, NVL(TO_CHAR(slab.mold_width),'NA') mold_width, NVL(TO_CHAR(mat.width),'NA') width, NVL(TO_CHAR(mat.thickness),
         'NA') thickness, NVL(TO_CHAR(mat.weight),'NA') weight, NVL(TO_CHAR(mat.length),'NA') length, NVL(TO_CHAR(mat.heat_id),'NA') heat_id, NVL(
         TO_CHAR(mat.steel_grade_id_int),'NA') steel_grade_id_int, NVL(TO_CHAR(slab.exit_temp),'NA') exit_temp, NVL(TO_CHAR(mat.slab_transition),'NA')
         slab_transition
02 |  FROM L3MAIN.r_os ros
03 |  LEFT JOIN L3MAIN.r_ccm ccm ON ros.r_os_id=ccm.r_os_id
04 |  LEFT JOIN L3MAIN.r_ccm_slab slab ON ros.r_os_id=slab.r_os_id
05 |  LEFT JOIN L3MAIN.r_mat mat ON ros.r_os_id=mat.r_os_id
06 |  WHERE sequence_id IS NOT NULL;
```

```sql
01 |  SELECT DISTINCT ccm2.sequence_id, sl.production_line_name, sl.piece_id, sl.material_id, sl.steel_grade_id_int, sl.heat_id, sl.slab_transition, sl.
         width, sl.length, sl.weight, sl.thickness, sl.thickness_hsm, sl.cut_time
02 |  FROM r_ccm ccm2
03 |  LEFT JOIN (
04 |      SELECT ros.production_line_name, ccm.sequence_id, NVL(TO_CHAR(slab.piece_id),'null') piece_id, NVL(TO_CHAR(slab.material_id),'null')
         material_id, NVL(TO_CHAR(slab.mold_width),'null') mold_width, NVL(TO_CHAR(slab.casting_speed),'null') casting_speed, NVL(TO_CHAR(slab.
         exit_temp),'null') exit_temp, NVL(TO_CHAR(mat.steel_grade_id_int),'null') steel_grade_id_int, NVL(TO_CHAR(mat.heat_id),'null') heat_id, NVL(
         TO_CHAR(mat.slab_transition),'null') slab_transition, NVL(TO_CHAR(mat.width),'null') width, NVL(TO_CHAR(mat.length),'null') length, NVL(
         TO_CHAR(mat.weight),'null') weight, NVL(TO_CHAR(mat.thickness),'null') thickness, NVL(TO_CHAR(mat2.thickness),'null') as thickness_hsm, NVL(
         TO_CHAR(slab.cut_time),'null') cut_time
05 |      FROM r_os ros, r_ccm_slab slab, r_ccm ccm, r_mat mat, r_mat mat2, r_os ros2
06 |      WHERE mat2.material_id=mat.material_id AND mat2.r_os_id=ros2.r_os_id AND ros2.production_line_name LIKE 'HSM%' AND mat.material_id=slab.
         material_id AND slab.r_os_id=ccm.r_os_id AND mat.material_type='S' AND mat.modification_date=(
07 |          SELECT MAX(mat2.modification_date)
08 |          FROM r_mat mat2
09 |          WHERE mat2.material_type='S' AND mat2.material_id=slab.material_id
10 |      ) AND ros.r_os_id=mat.r_os_id AND ros.production_line_name LIKE 'CCM1'
11 |  ) sl ON sl.sequence_id=ccm2.sequence_id
12 |  WHERE ccm2.ladle_arrival_time>to_date('01.07.2017', 'DD.MM.YYYY');
```