FROM EMPLOYEE AS TO DEPARTMENT AS D, PROJECT AS P
WORKS-ON AS W

WHERE W. ESSIV = E.SSN AND W. AND W. AND P. DNUMBER

AND P. DNUM = D. DNUMBER AND D.NAME = Research

SELECT E.FWAME, E.LWAME, G.SALARY, D.DWAME

FROM EMPLOYEE AS & DEPARTMENT AS D, DEPENDENT AS DE

WHERE E.SSN = DE.ESSN AND E.DNO - D.DNUMBER

GROUP BY E.FWAME, E.LWAME

HAVING COUNT (*) > 2

FROM DEPARTMENT AS D JOIN EMPLOYEE AS IS

ON D. DNUMBER = E. DNO

GROUP BY D. DNAME

HAVZNG COUNT (#) > 5

FROM EMPLOYEE AS E, EMPLOYEE AS M,

WORKS-ON AS W, PROJECT AS P

WHERE E. SUPERSON = 14. SON AND E.SON = W. ESSN

AND W.PNO = P. PMMBER

AND P.NAME = Montain Travel

AMD E. SALARY > M. SALARY

```
(5)
        SELECT P. P. NUMBER, P. NAME COUNT (*)
         FROM
                   PROJECT AS P. EMPLOYEE AS E.
                   WORKS-ON AS W
        WHERE
                 P.P.NUMBER IN ( SELECT W. PNO
                                         WURKS_ON AS W, PROJECT AS P
                  WIERE PLOCATION - HETHCH
                                  GROUP by
                                  HAVING
                                         COUNT (# ) >10 )
                  AND
                         E. St.X = Male
                 AND
                         W. ESSN = E. SSN
                        P. NUMBER = W. PNO
                  AND
(6)
      SELECT
               E. FNAME, E. LNAME, M. FNAME, M. LNAME
               EMPLOYEE AS E, EMPLOYEE AS M DEPARTHENT AS D
      FROM
      WHERE
               MT EXISTS ( SELECT *
                              TROM WORKS_ON AS W, EMPLOYEE AS EP
                              WHERE W.ESSN = EP. SSN)
                            AND
                             ( SELECT *
                              FROM DEPENDENT AS D. EMPLOYEE AS EP
                               WHERE D. ESSN = EP. SSN)
               AND
```

E. DNO = P. DNUMBER AND D. MGRSSN = M.SSN

```
1-7
(7)
             E.FWAME, E.LNAME, D.DNAME
       SELECT
                EMPLOYEE AS & JOWN DEPLOYMENT AS D
       FROM
                JOIN WIRK-ON AS W ON W. ESSN = E. SSN
        WHERE NOT EXESTS ( SELECT *
                             TROM DEPENDENT AS DP, EMPLOYEE AS EP
                             WHERE DP. ESSN = EP. SSN)
        GROUP BY
                  6.csN
        HAVING COUNT (#) > ALL (SELECT COUNT (+)
                                              EMPLOYET AS E.
                                        FROM
                                              WORKS-ON AS W
                                       WHERE
                                              E. DNO =5 AND
                                              E. SSIV= W. FrsN
                                       GROUP BY E.SSN)
(8)
     SELECT E. FNAME, B.LNAME, E. SALARY
      FROM EMPLOYEE AS E, DEPARTMENT AS D
      WHERE (SELECT COUNT (*)
                FROM EMPLOYTE AS P
               WHIRE P. SUPERISN = E. SIN AND
                        E.SSN - P. MGRSSN AND
                  D. DNAME = 'P&D') > 5
```

```
(9)
      (A) WITH JSWORK (PNUMBER) AS
                  ( STLECT PNUMBER
                    FROM PROJECT AS P, EMPLOYEE AS E.
                           WORKS_ON AS W
                   WHERE P.NUMBER = W.PNO AND
                           W. ESSN = E. SSN AND
                           E. FNAME = John AND
                           E. LNAMI = " Smith")
          SELECT E. FNAME, E. LWAME
          FROM EMPLOYED AS E, WORKS_ON AS W
          WHERE E.SSN = W.ESSN AND
                 W. PNO IN JSWORK
          GROUP BY ENAME, ELWAME
          HAVING COUNT (#) = (SELECT COUNT (#)
                                 FROM
                                         JSWORK )
  (b)
        JSmu PNO, set + J
        Emp PNO. set > E
            (intersects) (no intersection)
                                    JJE
                                              JCE
        NOT EXISTS ( J EXCEPT E)
       す fif Jコモ → 回停 J-E ·元素各 →NOT 5xxxx = FALSE
            「JCE J 回傳 MULL J MT BYISTI = TRUE
         故可由 MT EXESTS 和 EXCEPT 檢驗 JCE 2有形
```

(10) WITH RECURSIVE SUP_EMP (SupSin, EmpSon) AS (SELECT E. SUPERSW. E. SON FROM EMPLOYEE AS &, PROJECT AS P, WORKSON AS W WHERE P.PMMBER = W. PNO AND W. ESSN = E. SSN AND 1. PNAME = 'AI' UNZON SOLECT S. SUPERSON, E. SON FROM EMPLOYEL AS E, SUPLEMP AS S WHERE E. SUPERSON = S. EMPSON) SELECT E. FNAME, E. LNAME, M. FNAME, M. WAME FROM EMPLOYEE AS E, EMPLOYEE AS M. SUP-EMP AS S WHERE E. SSN = S. EmpSSN M. SSN = S. Sup SSN AND (SELECT COUNT (4) FROM SUP_EMP

GROUP BY SypSSN) >2