

Database Management System - Project Phase 3

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--Query 1

WITH sel(p_id)

AS

```
(
    SELECT "User".ID
    FROM "User"
    WHERE FIRST_NAME = 'Jim'
    AND LAST_NAME = 'Champ'
),
les(i, ct)
AS
(
    SELECT TRC.TUTOR_USER_ID, count(DISTINCT TRC.COURSE_CODE || TRC.COURSE_NUMBER)
    FROM TUTOR_RESPONSIBLE_COURSES TRC
    GROUP BY TRC.TUTOR_USER_ID
)
SELECT i
FROM les
JOIN sel
ON i != p_id
WHERE
(
    SELECT count(DISTINCT COURSE_CODE || COURSE_NUMBER)
    FROM TUTOR_RESPONSIBLE_COURSES
    WHERE TUTOR_USER_ID IN (p_id, i)) =
(
    SELECT min(ct)
    FROM les
    WHERE les.i IN (p_id)
)
```

--Query 2

```
SELECT UNIVERSITY.NAME, count(ACADEMIC_UNIT.UNIT_CAMPUS_ID)
FROM UNIVERSITY
INNER JOIN CAMPUS
    ON UNIVERSITY.ID = CAMPUS.UNIVERSITY_ID
INNER JOIN ACADEMIC_UNIT
    ON CAMPUS.ID = ACADEMIC_UNIT.UNIT_CAMPUS_ID
GROUP BY UNIVERSITY.NAME
```

--Query 3

```
SELECT UNIVERSITY.NAME, count(ACADEMIC_UNIT.UNIT_CAMPUS_ID)
FROM UNIVERSITY
LEFT OUTER JOIN CAMPUS
    ON UNIVERSITY.ID = CAMPUS.UNIVERSITY_ID
LEFT OUTER JOIN ACADEMIC_UNIT
    ON CAMPUS.ID = ACADEMIC_UNIT.UNIT_CAMPUS_ID
GROUP BY UNIVERSITY.NAME
```

--Query 4

```
SELECT "User".FIRST_NAME, "User".LAST_NAME
FROM "User"
INNER JOIN FACULTY
    ON "User".ID = FACULTY.USER_ID
INNER JOIN STUDENT
    ON FACULTY.USER_ID = STUDENT.USER_ID
```

--Query 5

```
SELECT "User".FIRST_NAME, "User".LAST_NAME
FROM "User"
WHERE ID IN
(
    SELECT TUTOR.USER_ID
    FROM TUTOR
    WHERE TUTOR.UNIT_COLLEGE_ID =
    (
        SELECT COLLEGE.UNIT_CLLGE_ID
        FROM COLLEGE
        WHERE COLLEGE.ID = 'CLAS'
    )
)
```

--Query 6

```
CREATE VIEW R1
AS
(
    SELECT UNIT.UNIT_CLLGE_ID
    FROM UNIT
    WHERE UNIT.CAMPUS_ID = 'IUSB'
    AND UNIT.ID = 'CS'
);

CREATE VIEW T1
AS
(
    SELECT sum(ONCALL.HOURS) AS Hours, ONCALL.TUTOR_USER_ID AS Tut_ID, ONCALL.ID AS ID
    FROM ONCALL
    NATURAL JOIN R1
    WHERE ONCALL.ONCALLDATE >= TO_DATE('05-01-2005', 'MM/DD/YY')
    AND ONCALL.ONCALLDATE <= TO_DATE('05-30-2005', 'MM/DD/YY')
    AND ONCALL.STATUS = '3'
    AND ONCALL.TUTOR_USER_ID = 9003
    GROUP BY ONCALL.TUTOR_USER_ID, ONCALL.ID
)

CREATE VIEW T2
AS
(
    SELECT sum(HOURS) AS Hours, TUTOR_USER_ID AS Tut_ID, ID AS HiD
    FROM APPT
    NATURAL JOIN R1
    WHERE APPTDATE >= TO_DATE('05-01-2005', 'MM/DD/YY')
    AND APPTDATE <= TO_DATE('05-30-2005', 'MM/DD/YY')
    AND STATUS = '3'
    AND TUTOR_USER_ID = 9003
    GROUP BY TUTOR_USER_ID, ID
)

CREATE VIEW R231
AS
(
    SELECT TUTSESSION.UNIT_CLLGE_ID, TUTSESSION.ID, TUTSESSION.HOURS, TUTSESSION.TUTSESSIONDATE
    FROM R1
    JOIN TUTSESSION
    ON R1.UNIT_CLLGE_ID = TUTSESSION.UNIT_CLLGE_ID
)

CREATE VIEW R232
AS
(
    SELECT R231.UNIT_CLLGE_ID, R231.ID, R231.HOURS, R231.TUTSESSIONDATE
    FROM R231
```

```

WHERE R231.TUTSESSIONDATE >= TO_DATE('05-01-2005', 'MM/DD/YY')
AND R231.TUTSESSIONDATE <= TO_DATE('05-30-2005', 'MM/DD/YY')
)

CREATE VIEW R233
AS
(
    SELECT *
    FROM R232
    JOIN TUTOR_ASSIGNED_TUTSESSION
    ON R232.UNIT_CLLGE_ID = TUTOR_ASSIGNED_TUTSESSION.SESSION_UNIT_CLLGE_ID
    AND R232.ID = TUTOR_ASSIGNED_TUTSESSION.SESSION_ID
)

CREATE VIEW T3
AS
(
    SELECT sum(HOURS) AS Hours, TUTOR_USER_ID AS Tutor_ID, ID
    FROM R233
    WHERE R233.STATUS = '3'
    AND R233.TUTOR_USER_ID = 9003
    GROUP BY TUTOR_USER_ID, ID
)

SELECT
T1.Hours + T2.Hours + T3.Hours
AS Total
FROM T1, T2, T3

```
