**10/23/2019**

(8) List the names of students taking the class id #10000 but not #10004.

+------------+

| student |

+------------+

| Mary Hawk |

| David Hawk |

+------------+

2 rows in set (0.00 sec)

8a. List the names of students taking the class id #10000

-- 8a. List the names of students taking classes id #10000

-- Output: student: s.fname, ' ', s.lname

-- Source: student s, Enroll e (join condition)

-- Condition: classid in enroll #10000.

SELECT DISTINCT CONCAT(s.fname, ' ', s.lname) AS `student`

FROM student s INNER JOIN enroll e ON (s.stuId = e.stuId)

WHERE e.classId = 10000;

+------------+

| student |

+------------+

| Tony Hawk |

| Mary Hawk |

| David Hawk |

+------------+

3 rows in set (0.01 sec)

8b. List the names of students taking the class id #10004

-- 8b. List the names of students taking classes id #10004

-- Output: student: s.fname, ' ', s.lname

-- Source: student s, Enroll e (join condition)

-- Condition: classid in enroll #10004.

SELECT DISTINCT CONCAT(s.fname, ' ', s.lname) AS `student`

FROM student s INNER JOIN enroll e ON (s.stuId = e.stuId)

WHERE e.classId = 10004;

+-----------------+

| student |

+-----------------+

| Tony Hawk |

| Larry Johnson |

| Linda Johnson |

| Lillian Johnson |

+-----------------+

4 rows in set (0.00 sec)

List the stuId of students taking the class id #10004

SELECT DISTINCT e.stuId

FROM enroll e

WHERE e.classId = 10004;

+--------+ | stuId | +--------+ | 100000 | | 100004 | | 100005 | | 100006 | +--------+ 4 rows in set (0.00 sec)

8. 8a but stuid is not in 8b.

SELECT DISTINCT CONCAT(s.fname, ' ', s.lname) AS `student`

FROM student s INNER JOIN enroll e ON (s.stuId = e.stuId)

WHERE e.classId = 10000 -- 8a

AND s.stuId NOT IN

 (SELECT DISTINCT e.stuId

 FROM enroll e

 WHERE e.classId = 10004); -- 8b