1a.

UPDATE professor SET salary = CASE WHEN salary > 100000 THEN salary \* 1.03

CASE WHEN salary < 100001 THEN salary \* 1.04

**END** 

1b.

SELECT student\_ID from advisement where professor\_id='P001' Intersect select student\_id from advisement where professor id='P002'

1c.

SELECT distinct zip\_code COUNT from student GROUP BY zip\_code having COUNT(\*) > 100

1d.

SELECT professor\_professor\_id from professor WHERE professor.professor\_id NOT IN (SELECT professor\_ID from advisement)

1e.

SELECT professor.professor\_id from professor left outer join advisement ON professor\_id = advisement.professor\_id WHERE advisement.professor\_id is NULL

1f.

SELECT distinct student\_ID from advisement WHERE professor\_id in (Select professor\_id from advisement where student\_id = 'S001')

1g.

SELECT distinct S.student\_id from student as S where not exists ((select\_distinct professor\_id from advisement WHERE student\_id = 'S001') except (SELECT A.professor\_id from advisement as A where S.student\_ID = A.student\_id))

1h.

SELECT distinct pid FROM (SELECT professor\_id as pid, count(professor\_id) as total from advisement group by pid) as counted

WHERE total =

(SELECT max(maximums) FROM (SELECT professor\_id as pidtwo, count(professor\_id) as maximums from advisement group by professor\_id) as themax)