1. select case when (A+B>C and A+C>B and B+C>A) then

case when (A=B and B=C) then 'Equilateral'

when (A=B or B=C or A=C) then 'Isosceles'

when(A!=B or B!=C or A!=C) then 'Scalene' end

else 'Not A Triangle'

end from triangles;

2. select concat(name,concat("(",Upper(left(occupation,1)),")")) from occupations order

by name asc;

select concat("There are a total of ", count(occupation)," ", concat(lower(occupation),"s.")) as total from occupations group by occupation order by total;

3. SET @d = 0, @p = 0, @s = 0, @a = 0;

Select MIN(Doctor), MIN(professor), MIN(singer),MIN(actor) from

(SELECT CASE Occupation

WHEN 'Doctor' THEN @d := @d + 1

WHEN 'Professor' THEN @p := @p + 1

WHEN 'Singer' THEN @s:= @s + 1

WHEN 'Actor' THEN @a := @a + 1

END AS row,

IF (Occupation = 'Doctor', Name, NULL) AS Doctor,

IF (Occupation = 'Professor', Name, NULL) AS Professor,

IF (Occupation = 'Singer', Name, NULL) AS Singer,

IF (Occupation = 'Actor', Name, NULL) AS Actor

FROM OCCUPATIONS

ORDER BY Name) as a

group by row;

4. select n, (case   
 when p is null then 'Root'  
 when n not in (select p from bst where p is not null) then 'Leaf'  
 else 'Inner' end) from bst order by n;

5. select c.company\_code, c.founder,

count(distinct l.lead\_manager\_code),

count(distinct s.senior\_manager\_code),

count(distinct m.manager\_code),

count(distinct e.employee\_code)

from company c, lead\_manager l, senior\_manager s, manager m, employee e

where c.company\_code=l.company\_code

and l.lead\_manager\_code=s.lead\_manager\_code

and s.senior\_manager\_code=m.senior\_manager\_code

and m.manager\_code=e.manager\_code

group by c.company\_code, c.founder

order by c.company\_code