Assignment 6

Use the subquery to answer all the queries.

Answer the following questions for the stayHome database

1. List all staff whose salary is greater than the average salary, and show by how much their salary is greater than the average.

Soln: select staffno, name, position,
    salary - (select avg (salary) from staff) as salaryDiff
    from staff
    where salary > (select avg(salary) from staff);

2. List the videos that are handled by staff who work in the branch at 'city center Plaza'.

Soln: select videoNo
    from rentalagreement
   where memberno in (
    select memberno from registration
   where staffno in (
     select staffno from staff
    where branchno = (
     select branchno from branch
     where street = 'City Center Plaza')));

3. Find all staff whose salary is larger than the salary of at least one member of staff at branch B001.

Soln1: select staffno, name, position, salary
    from staff
    where salary > **some**(
     select salary from staff
     where branchNo = 'B00l');

Soln2: select staffno, name, position, salary
    from staff
    where salary > **any**(
     select salary from staff
     where branchNo = 'B00l');

4. Find all staff whose salary is larger than the salary of every member of staff at branch B001.

Soln: select staffno, name, position, salary
from staff
where salary > all(
select salary from staff
where branchNo = 'B001');

Consider the classSchedule and answer the following queries with mysql:

1. Which students were not enrolled in any courses during Semester I-2008?

Soln: select distinct student_id, student_name
from student s
where not exists (
select * from registration r
where s.student_id = r.student_id
and semester= 'I-2008');

2. Display all courses for which Professor Berndt has been qualified

Soln: select course_id, course_name
from course
where course_id in (
select course_id from qualified
where faculty_id = (
select faculty_id from faculty
where faculty_name = 'Berndt'));

Consider the hotelbooking and answer the following queries with mysql:

1. *List the price and type of all rooms at the Grosvenor Hotel.*

Soln: select price, type

from Room

where hotelNo =

(select hotelNo from Hotel

where hotelName = 'Grosvenor');

2. *List all guests currently staying at the Grosvenor Hotel.*

Soln: select * from Guest

where guestNo =

(select guestNo from Booking

where dateFrom <= CURRENT_DATE and

dateTo >= CURRENT_DATE and

hotelNo = (

select hotelNo from Hotel

where *hotelName = 'Grosvenor'));*