- 1. Which SQL select will display the employees' last names and their job names?
 - a. SELECT employees.last_name, jobs.job_title
 FROM employees, jobs
 WHERE e.employee id = j.job id;
 - b. SELECT e.last_name, j.job_title
 FROM employees e, jobs j
 WHERE e.employee id = j.job id;
 - c. SELECT e.last_name, j.job_title
 FROM employees e, jobs j
 WHERE e.job_id = j.job_id;
 - d. SELECT last_name, job_title
 FROM employees, jobs
 WHERE employee id = job id;
- 2. Which of the following will do the same but in SQL 92?
 - a. SELECT employees.last_name, jobs.jobs_title
 FROM employees INNER JOIN jobs
 USING (job_id);
 - b. SELECT e.last_name, j.job_title
 FROM employees e INNER JOIN jobs j
 USING (employee_id);
 - c. SELECT e.last_name, j.job_title
 FROM employees e INNER JOIN jobs j
 USING (e.employee id = j.job id);
 - d. SELECT last_name, job_title
 FROM employees INNER JOIN jobs
 ON (job id);

3. Which SQL select will display the employee last names and employee IDs who started employment after Jan 21, 2003 in the department name of "Sales"?

employees.last name, employees.employee ID

SELECT

a.

```
employees, job history, department
       FROM
       WHERE e.employee id = j.employee id
       AND e.department id = d.department id
              j.start date > '21-Jan-2003'
       AND
              upper(d.department name) = 'Sales';
       AND
              last name, employee ID
  b. SELECT
              employees e, job history j, departments d
       FROM
       WHERE e.employee id = \overline{j}.employee id
              e.department id = d.department id
       AND
              j.start date > '21-Jan-2003'
       AND
              d.department name = 'Sales';
       AND
      SELECT e.last name, e.employee ID
  C.
              employees e, job history j, departments d
       FROM
       WHERE e.employee id = \overline{j}.employee id
              j.start date > '21-Jan-2003'
       AND
       AND
              upper(d.department name) = 'SALES';
  e. SELECT last name, e.employee ID
             employees e, job history, departments
      FROM
      WHERE e.employee id = job history.employee id
             e.department_id = departments.department id
      AND
      AND
             start date > '21-Jan-2003'
             department name = 'Sales';
      AND
4. Which of the following will do the same but in SQL 92?
     a. SELECT employees.last name, employees.employee ID
       FROM employees INNER JOIN job history
       USING (employee ID) INNER JOIN departments
       USING (department ID)
       WHERE start date > '21-Jan-2003'
             department name = 'Sales';
     b. SELECT e.last name, e.employee ID
       FROM employees e INNER JOIN job history j
       USING (employee id) INNER JOIN departments d
       USING (job id)
       WHERE j.start date > '21-Jan-2003'
       AND d.department name = 'Sales';
```

```
c. SELECT e.last name, e.employee id
       FROM employees e INNER JOIN job history j
       ON (e.employee id = j.employee)
       INNER JOIN departments d
       ON (d.department id = j.employee id)
       WHERE j.start date > '21-Jan-2003'
       AND d.department name = 'Sales';
     d. SELECT e.last name, employee ID
       FROM departments d INNER JOIN employees e
       ON (d.department id = e.department id) INNER JOIN
       JOB HISTORY j
       USING (employee ID)
       WHERE j.start date > '21-Jan-2003'
            lower(d.department name) = 'sales';
5. Which select will NOT return the list of employees who work in Canada?
     a. SELECT last name AS "Last Name"
       FROM employees, departments, locations, countries
       WHERE employees.employee id =
       departments.employee id
       AND countries.location id = locations.location id
       AND departments.country id = countries.country id
       AND upper (country name) = 'CANADA';
     b. SELECT last name "Last Name"
       FROM employees INNER JOIN departments
       USING (department id)
       INNER JOIN locations
       USING (location id)
       INNER JOIN countries
       USING (country id)
       WHERE upper (country name) = 'CANADA';
     c. SELECT e.last name
       FROM employees e INNER JOIN departments d
       ON (e.employee id = d.employee id)
       INNER JOIN locations 1
       ON (d.location id = 1.location id)
       INNER JOIN countries c
       ON (l.country id = c.country id)
       WHERE upper (country name) = 'CANADA';
     d. SELECT last name
       FROM employees
       WHERE department id IN
```

```
( SELECT department_id
FROM departments
WHERE location_id IN
   ( SELECT location_id
     FROM locations
     WHERE country_id IN
     ( SELECT country_id
          FROM countries
          WHERE country_name = 'Canada')));
```

6. Which SELECT(s) shows the last name of current managers who at one time had been employed before (have a record in job history)?

```
a. select last name
  from employees, jobs, job history
  where employees.job id = jobs.job id
  and job title like '%Manager%'
  and employees.employee id =
job history.employee id;
b. select last name
  from employees, jobs
  where employees.job id = jobs.job id
  and job title like '%Manager%'
  and employee id IN
  (select employee id from job history);
c. select e.last name
  from employees e, job history j
  where e.job id =
  ( select job id
    From jobs
    Where job title like '%Manager%')
  And e.employee id = j.employee id;
d. select last name
  from employees e
  where exists
        ( select job history.job id
           From job history
           where e.job id = job history.job id)
    and
    e.job id in
    (select job id
       from jobs
       Where job title like '%Manager%')
```