```
--Basic Queries-
-- Find all employees
SELECT *
FROM employee;
-- Find all clients
SELECT *
FROM clients;
-- Find all employees ordered by salary
SELECT *
from employee
ORDER BY salary ASC/DESC;
-- Find all employees ordered by sex then name
SELECT *
from employee
ORDER BY sex, name;
-- Find the first 5 employees in the table
SELECT TOP 5 *
from employee
-- Find the first and last names of all employees
SELECT first name, employee.last name
FROM employee;
-- Find the forename and surnames names of all employees
SELECT first_name AS forename, employee.last_name AS surname
FROM employee;
-- Find out all the different genders
SELECT DISCINCT sex
FROM employee;
-- Find all male employees
SELECT *
FROM employee
WHERE sex = 'M';
-- Find all employees at branch 2
SELECT *
FROM employee
WHERE branch id = 2;
-- Find all employee's id's and names who were born after 1969
SELECT emp id, first name, last name
FROM employee
WHERE birth day >= 1970-01-01;
-- Find all female employees at branch 2
SELECT *
FROM employee
WHERE branch id = 2 AND sex = 'F';
```

```
-- Find all employees who are female & born after 1969 or who make over 80000
SELECT *
FROM employee
WHERE (birth day >= '1970-01-01' AND sex = 'F') OR salary > 80000;
-- Find all employees born between 1970 and 1975
SELECT *
FROM employee
WHERE birth day BETWEEN '1970-01-01' AND '1975-01-01';
-- Find all employees named Jim, Michael, Johnny or David
SELECT *
FROM employee
WHERE first name IN ('Jim', 'Michael', 'Johnny', 'David');
-- Aggregate Functions
-- Find the number of employees
SELECT COUNT(super id)
FROM employee;
-- Find the average of all employee's salaries
SELECT AVG(salary)
FROM employee;
-- Find the sum of all employee's salaries
SELECT SUM(salary)
FROM employee;
-- Find out how many males and females there are
SELECT COUNT(sex), sex
FROM employee
GROUP BY sex
-- Find the total sales of each salesman
SELECT SUM(total sales), emp id
FROM works with
GROUP BY client id;
-- Find the total amount of money spent by each client
SELECT SUM(total sales), client id
FROM works with
GROUP BY client id;
--Like operator (wildcard)
-- % = any \# characters, _ = one character
-- Find any client's who are an LLC
SELECT *
FROM client
```

```
WHERE client name LIKE '%LLC';
-- Find any branch suppliers who are in the label business
SELECT *
FROM branch supplier
WHERE supplier name LIKE '% Label%';
-- Find any employee born on the 10th day of the month
SELECT *
FROM employee
WHERE birth day LIKE ' 10%';
-- Find any clients who are schools
SELECT *
FROM client
WHERE client name LIKE '%Highschool%';
______
--Union
-- Find a list of employee and branch names
SELECT employee.first name AS Employee Branch Names
FROM employee
UNION
SELECT branch.branch name
FROM branch:
-- Find a list of all clients & branch suppliers' names
SELECT client.client name AS Non-Employee Entities, client.branch id AS
Branch ID
FROM client
UNION
SELECT branch supplier supplier name, branch supplier branch id
FROM branch supplier;
--Joins
-- Add the extra branch
INSERT INTO branch VALUES(4, "Buffalo", NULL, NULL);
SELECT employee.emp id, employee.first name, branch.branch name
FROM employee
JOIN branch
           -- LEFT JOIN, RIGHT JOIN
ON employee.emp_id = branch.mgr id;
______
--Nested Queries
-- Find names of all employees who have sold over 50,000
SELECT employee.first name, employee.last name
FROM employee
WHERE employee.emp id IN (SELECT works with.emp id
```

```
FROM works_with
WHERE works_with.total_sales > 50000);
```