```
#include <iostream>#include <occi.h>using oracle::occi::Environment;using
oracle::occi::Connection;using namespace oracle::occi;using namespace std;int
main(void){ Environment* env = nullptr; Connection* conn = nullptr; Statement*
stmt = nullptr; ResultSet* rs = nullptr;
                                            int num;
                                                       string str; string user
= "dbs211 202f31";
                     string pass = "15004242";
                                                 string constr =
"myoracle12c.senecacollege.ca:1521/oracle12c";
                                                        try {
Environment::createEnvironment(Environment::DEFAULT);
                                                        conn = env-
>createConnection(user, pass, constr);
                                             std::cout << "connection is</pre>
                            Statement* stmt = conn->createStatement():
successful" << endl:
     ResultSet* rs = stmt->executeQuery("SELECT employeenumber,
firstname, lastname , phone, extension FROM employees, offices WHERE
employees.officecode = offices.officecode and LOWER(city) = 'san francisco' ORDER
by employeenumber"); cout << "------Report 1 (Employee Report) ------ << endl; cout << "Employee ID
First Name Last Name Phone
                                        Extension" << endl;</pre>
<< " ------
endl; while (rs->next()) {
                                                        int employeenumber =
rs->getInt(1);
                       string fname = rs->getString(2);
lname = rs->getString(3);
                             string phone = rs->getString(4);
     string extension = rs->getString(5);
                                                        cout << " ";
                            cout.setf(ios::left);
     cout.width(12);
employeenumber;
                            cout << " ";
                                                        cout.width(14);
     cout.setf(ios::left);
                                       cout << fname;</pre>
     cout.width(8);
                                 cout << lname;</pre>
     cout.setf(ios::left);
                                       cout.width(4);
                                                                   cout << "":
                                       cout.width(8);
                                                                   cout << " ":
           cout << phone;</pre>
                 cout << extension << endl;</pre>
                                                             stmt = conn-
                      rs = stmt->executeQuery("SELECT employeeNumber,
>createStatement();
firstName, lastName, phone, extension FROM employees e, offices o WHERE
employeeNumber IN (SELECT e1.reportsTo FROM employees e1 LEFT OUTER JOIN employees
e2 ON e1.reportsTo = e2.employeeNumber) and e.officeCode = o.officeCode ORDER BY
cout << "Employee ID</pre>
First Name Last Name Phone
                                               Extension" << endl; cout</pre>
<< " -----
                                                                 ----" <<
endl; while (rs->next()) {
                                                        int employeenumber =
rs->getInt(1);
                                             string fname = rs->getString(2);
                 string lname = rs->getString(3);
     string phone = rs->getString(4);
                                                                   string
                                                        cout << " ";
extension = rs->getString(5);
                                  cout.setf(ios::left);
     cout.width(12);
                                                                   cout <<
employeenumber;
                            cout << " ";
                                                        cout.width(14);
     cout.setf(ios::left);
                                       cout << fname:</pre>
     cout.width(8);
                                 cout << lname;</pre>
                                                                    cout << "":
     cout.setf(ios::left);
                                       cout.width(4);
                                                                    cout << " ":
           cout << phone;</pre>
                                       cout.width(8);
                 cout << extension << endl;</pre>
                                                                         env-
>terminateConnection(conn);
                                Environment::terminateEnvironment(env);
                                                                         }
     catch (SQLException & sqlExcp) {
                                        cout << "error";</pre>
     cout << sqlExcp.getErrorCode() << ": " << sqlExcp.getMessage();</pre>
                                                                         }
     return 0;}
```