Project Documentation

Introduction

The **Intercollegiate Athletic Database** is an MYSQL relational database for the intercollegiate to support the scheduling and operation of the Event. It contains eight tables: Location,ResourceTbl,EventRequest, EventPlan,EventPlanLine.

The EventRequest table is the hub of the database. An event request represents an event scheduled at a facility. For example, a basketball game may be scheduled at the gymnasium. Events are sometimes scheduled several months in advance. Holding an event requires resources including personnel and equipment. Resources are assigned to specific locations of a facility. For example, guards may be required at the gates of the football stadium.

The EventPlan table defines a plan for an event's setup, operation, And cleanup.

The EventPlanLine table contains the individual resources required in an event plan

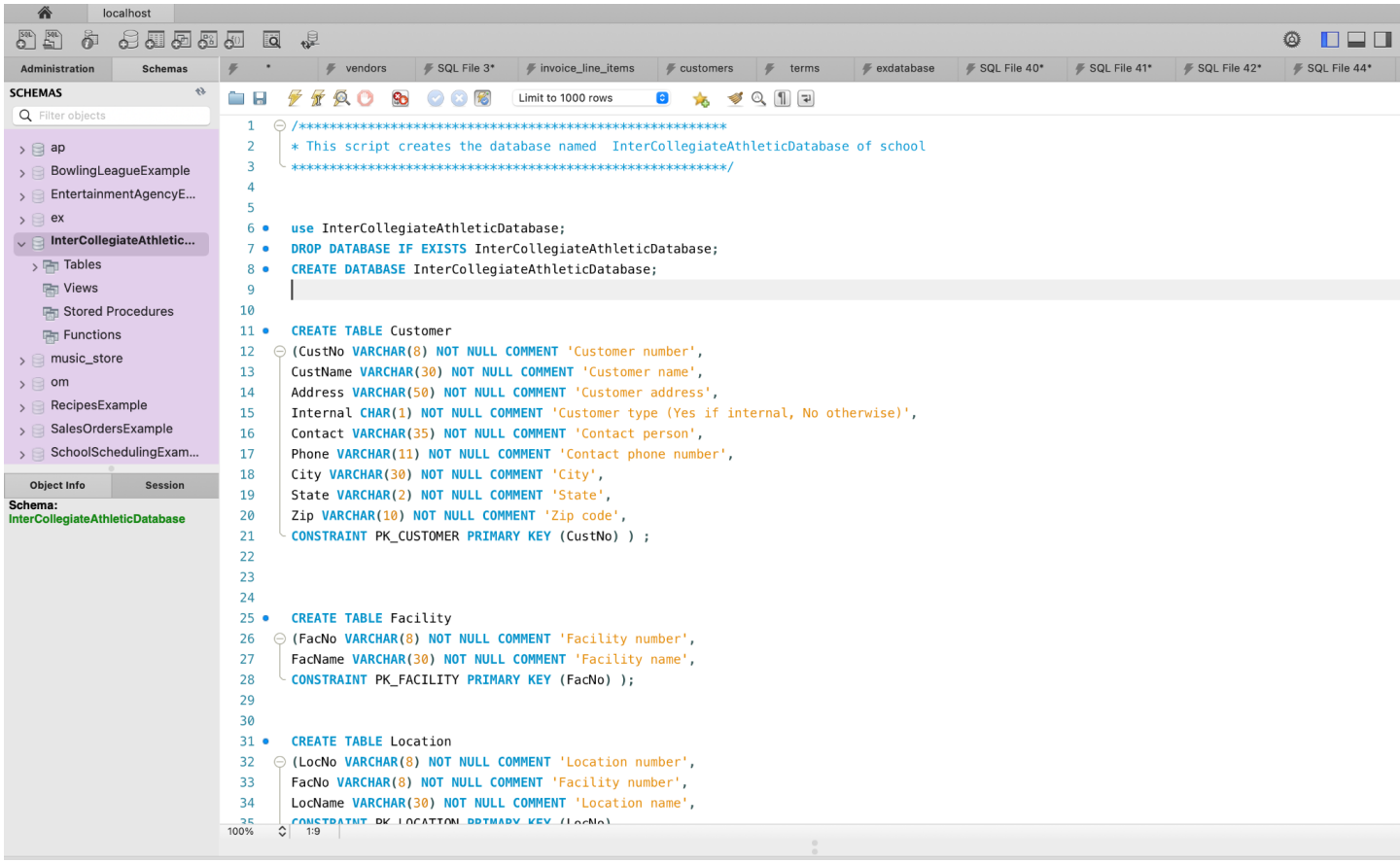
Demonstration

Use MySQL Workbench to create the My **Intercollegiate Athletic Database**, to review the tables in this database, and enter SQL statements and run them against this database

Step 1. Start MySQL server is running

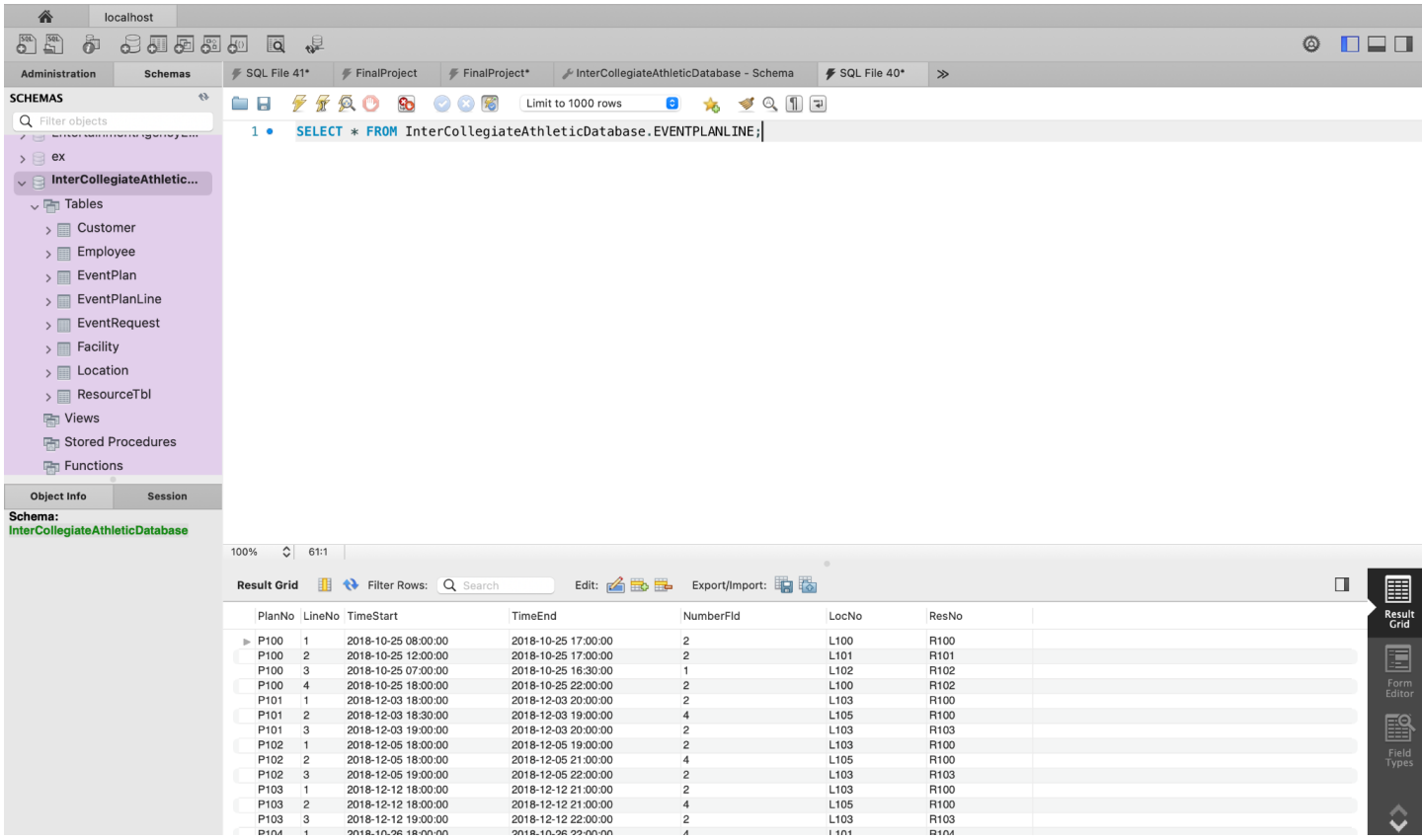
1. Start MySQL Workbench and open a connection for the root user
2. Check MySQL server is running.

Step 2. Use MySQL Workbench to create the Intercollegiate Athletic Database



Step 3. Use MySQL Workbench to review the Intercollegiate Athletic Database database

In the Schemas category of the Navigator window, expand the node for the database named Intercollegiate Athletic Database database so you can see all of the database objects it contains. If it isn't displayed in the Schemas tab of the Navigator window, you may need to click on the Refresh button to display it. View the data for the Categories and Eventplanline.

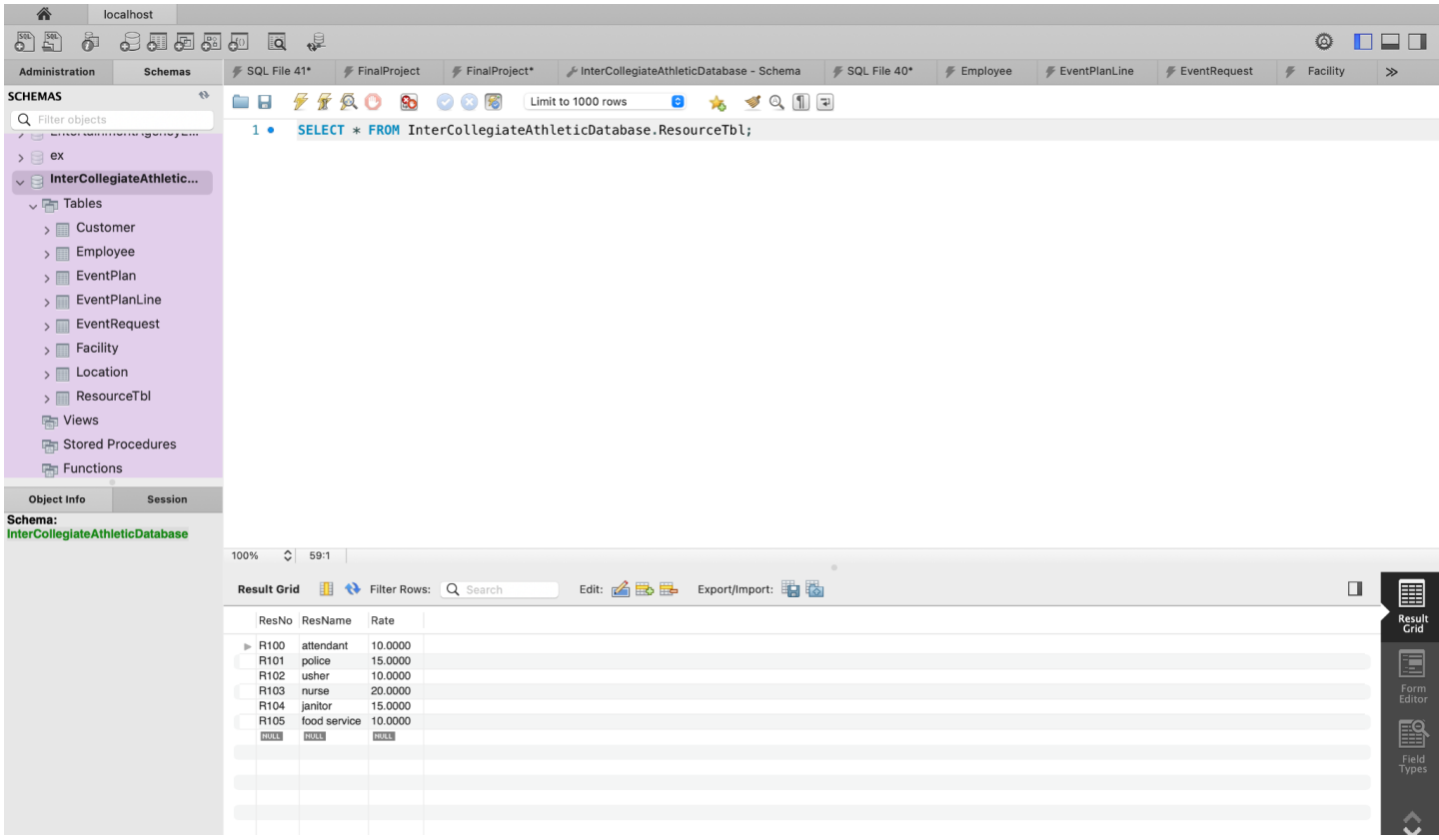


Step 4 Use MySQL Workbench to enter and run SQL statements

Double-click on the Intercollegiate Athletic Database to set it as the default database. When you do that, MySQL Workbench should display the database in bold.

Open a SQL editor tab. Then, enter and run this SQL statement:

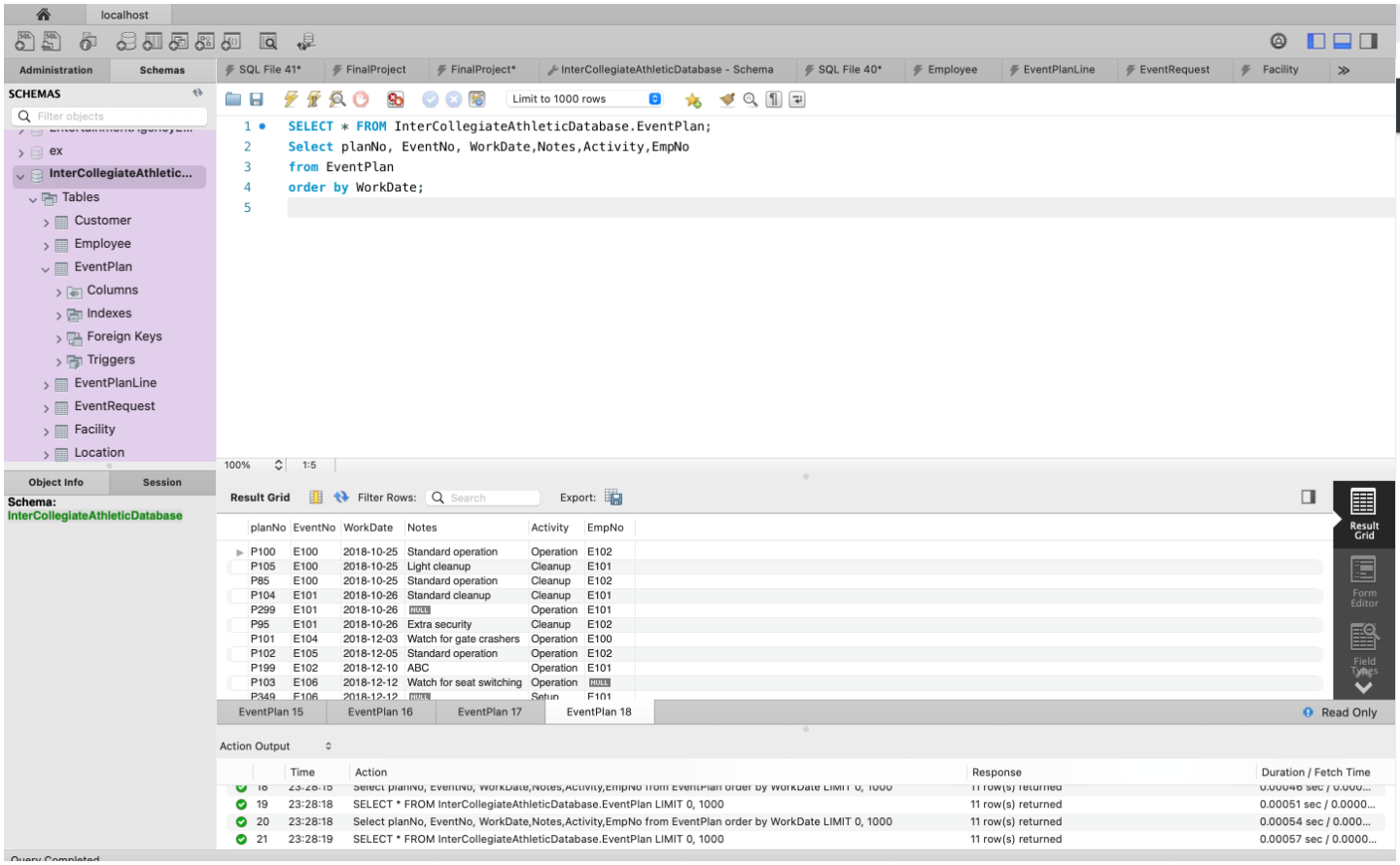
SELECT * FROM InterCollegiateAthleticDatabase.ResourceTbl;



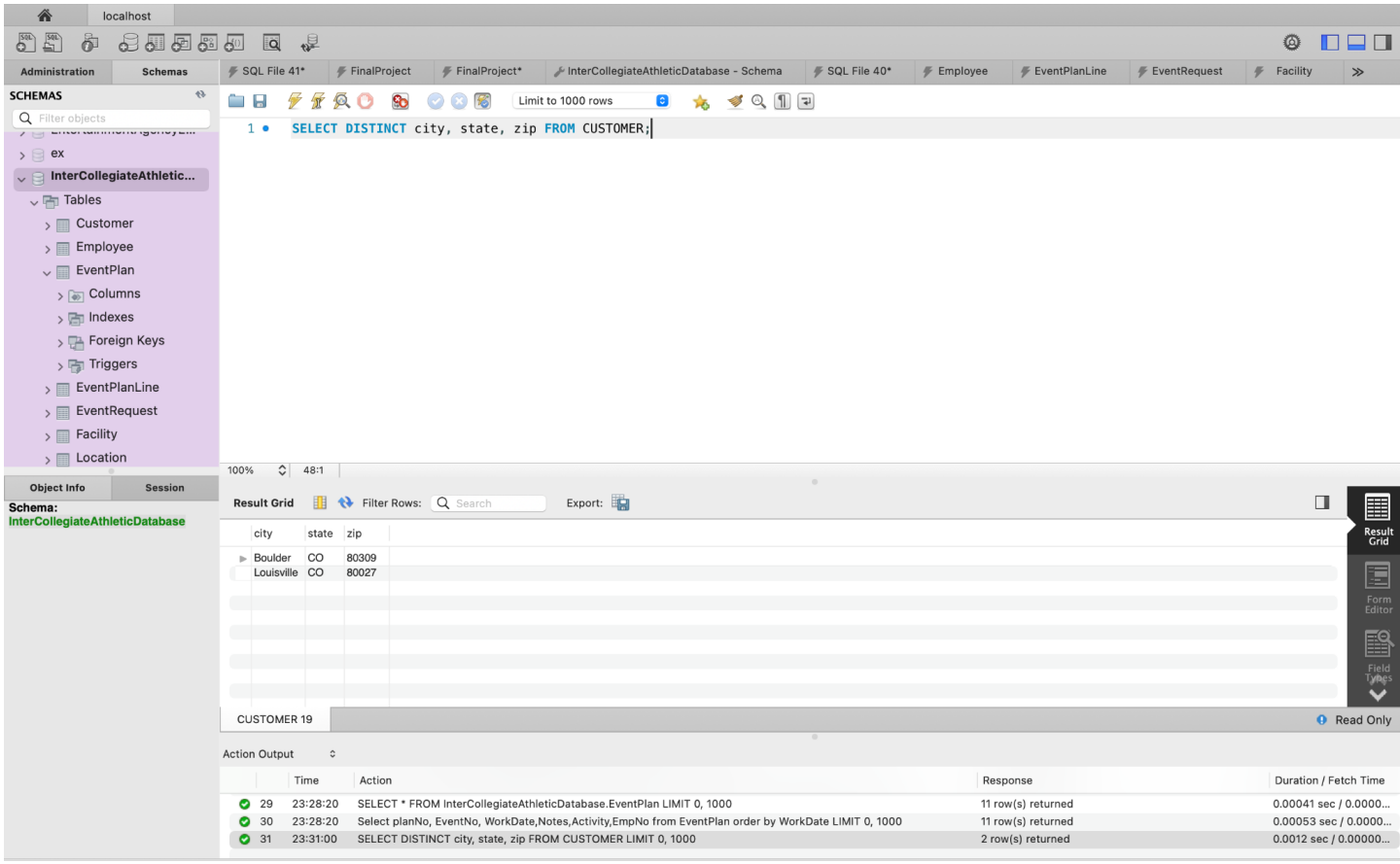
3. How to retrieve data from a single table

1. Write a SELECT statement that returns four columns from the eventPlan: planNo ,eventNo, workdate , and Notes, Activity,employeenumber . Then, run this statement to make sure it works correctly. Add an ORDER BY clause to this statement that sorts the result set by date in descending sequence.

```
SELECT * FROM InterCollegiateAthleticDatabase.EventPlan;
Select planNo, EventNo, WorkDate,Notes,Activity,EmpNo
from EventPlan
order by WorkDate;
```

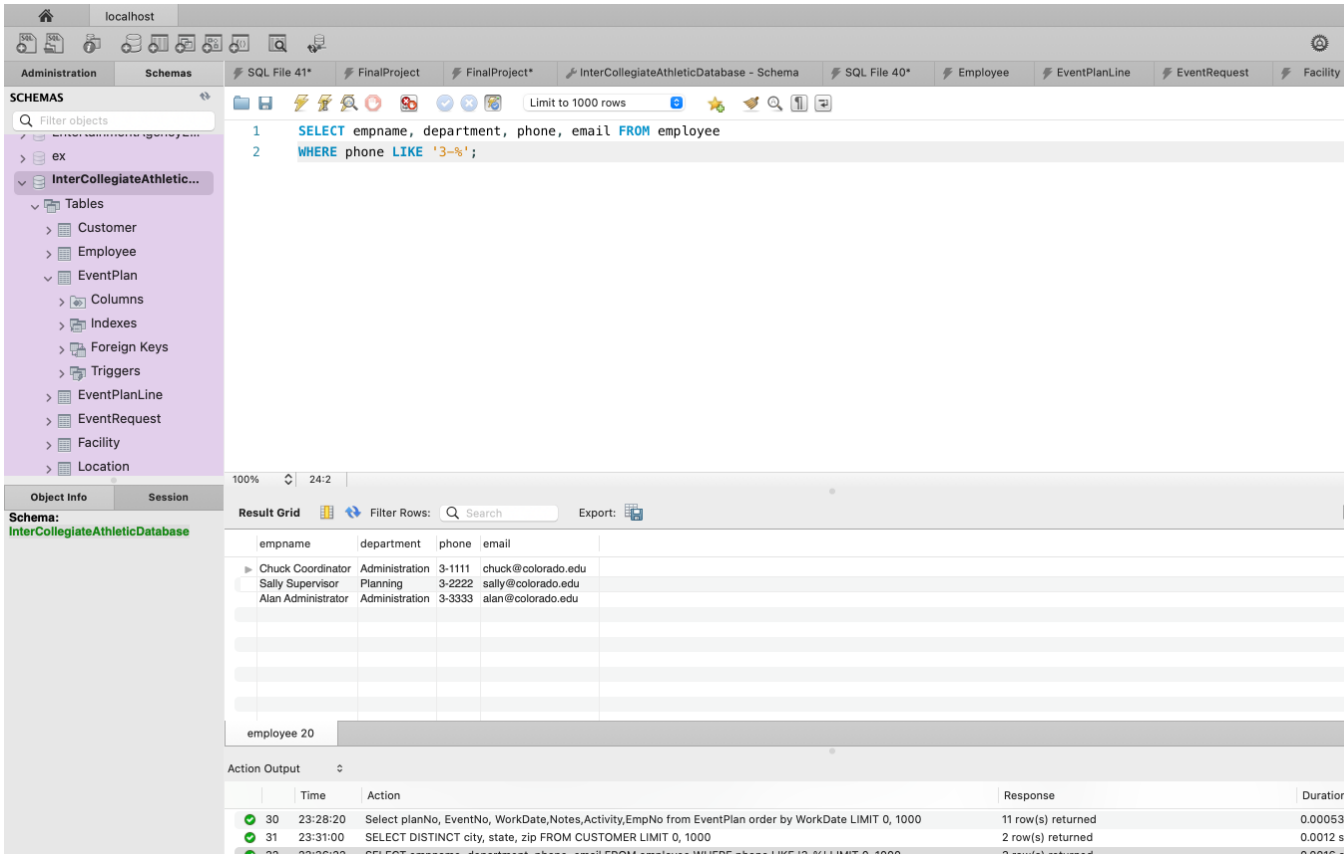


2. List the city, state, and zip codes in the customer table. Your result should not have duplicates

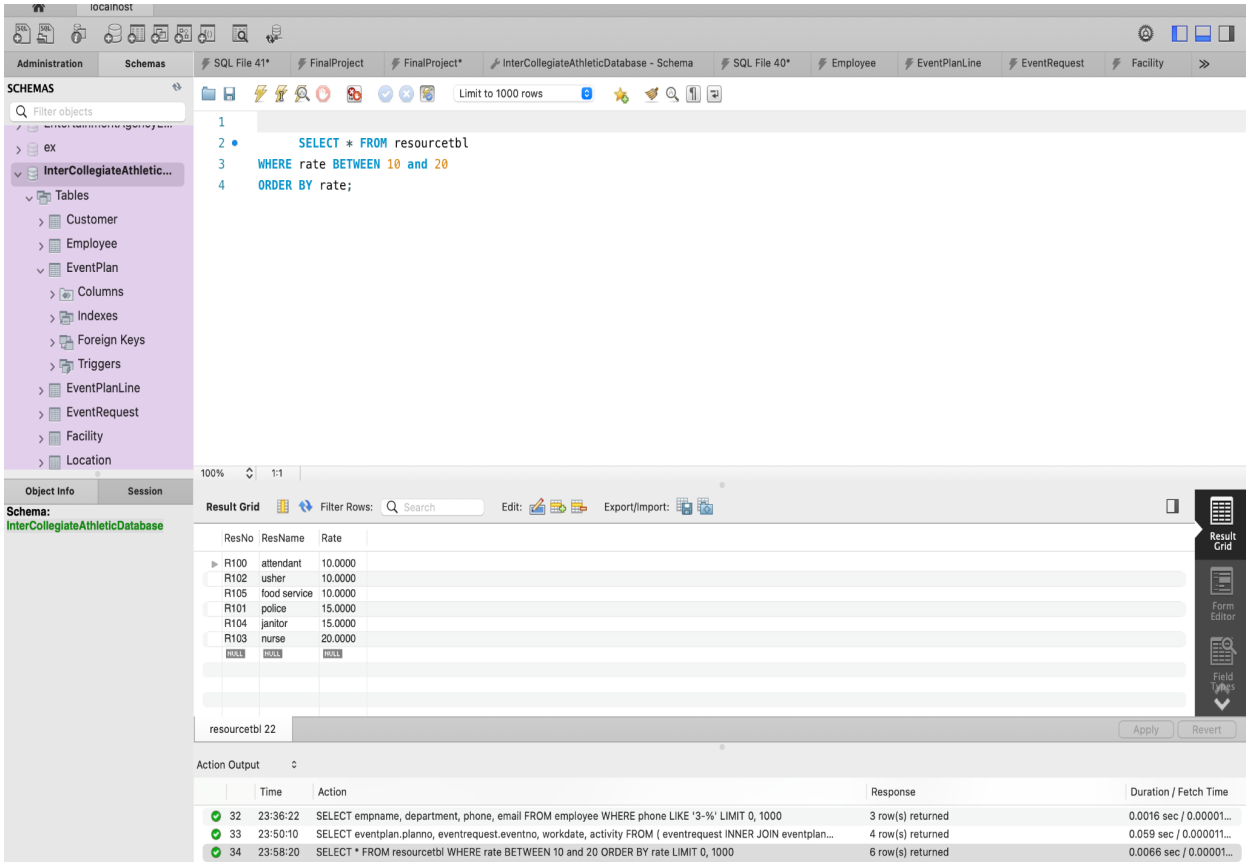


3. List the name, department, phone number, and email address of employees with a phone number beginning with "3-"

```
SELECT empname, department,
phone,
 email FROM employee
WHERE phone LIKE '3-%';
```

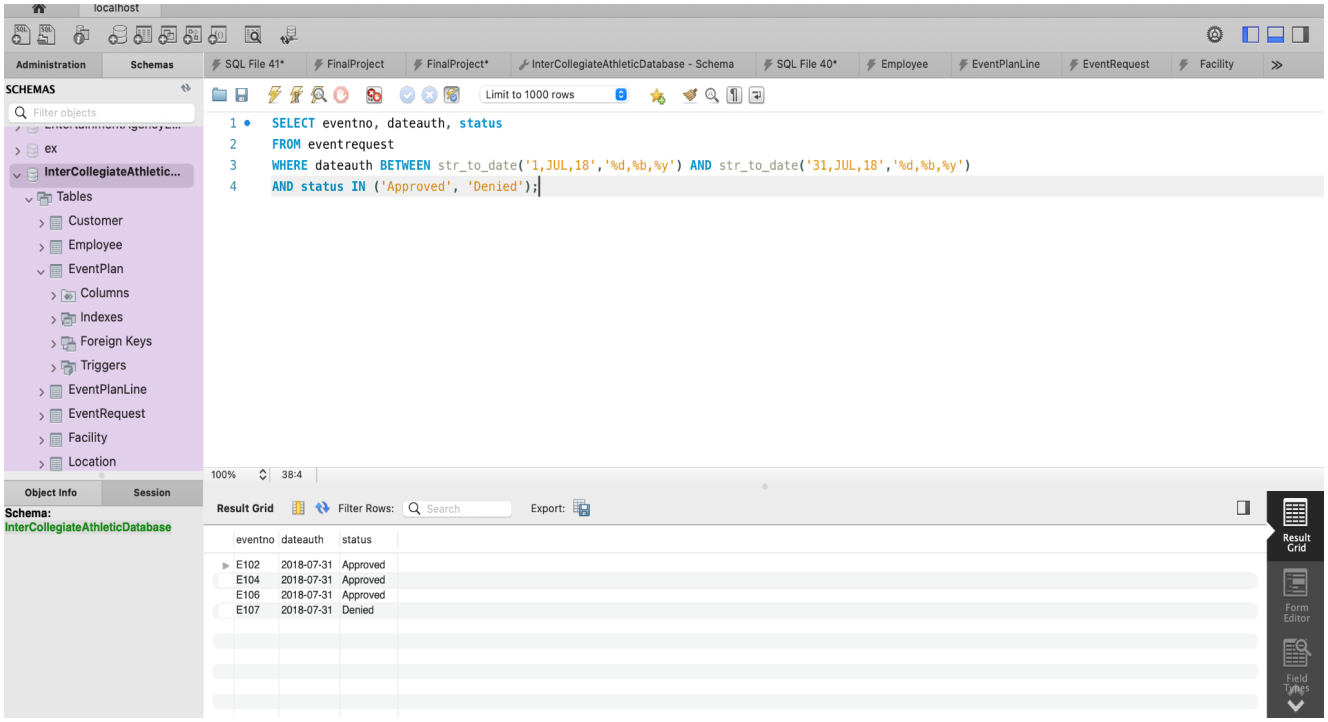


List all columns of the resource table with a rate between $10 and $20. Sort the result by rate.



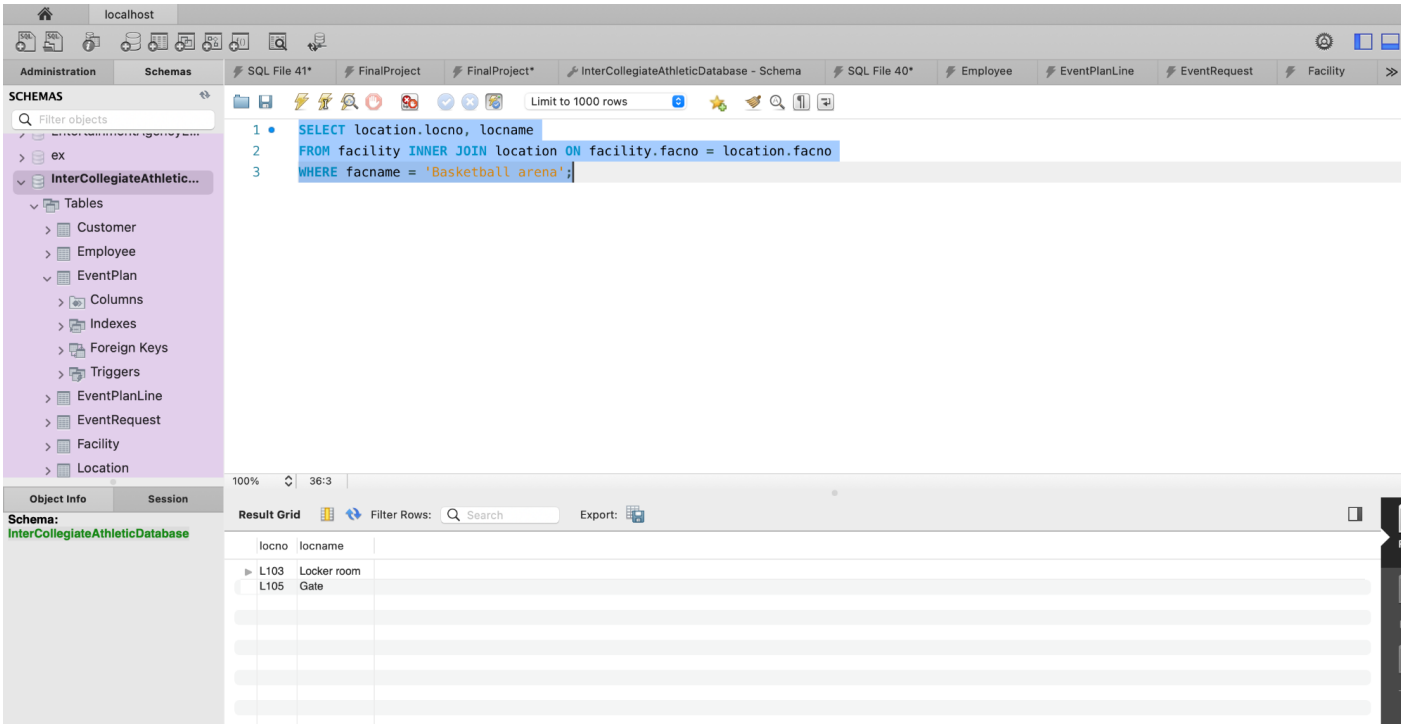
List the event requests with a status of “Approved” or “Denied” and an authorized date in July 2018. Include the event number, authorization date, and status in the output.

```
SELECT eventno, dateauth, status
FROM eventrequest
WHERE dateauth BETWEEN
str_to_date('1,JUL,18','%d,%b,%y') AND
str_to_date('31,JUL,18','%d,%b,%y')
AND status IN ('Approved', 'Denied');
```



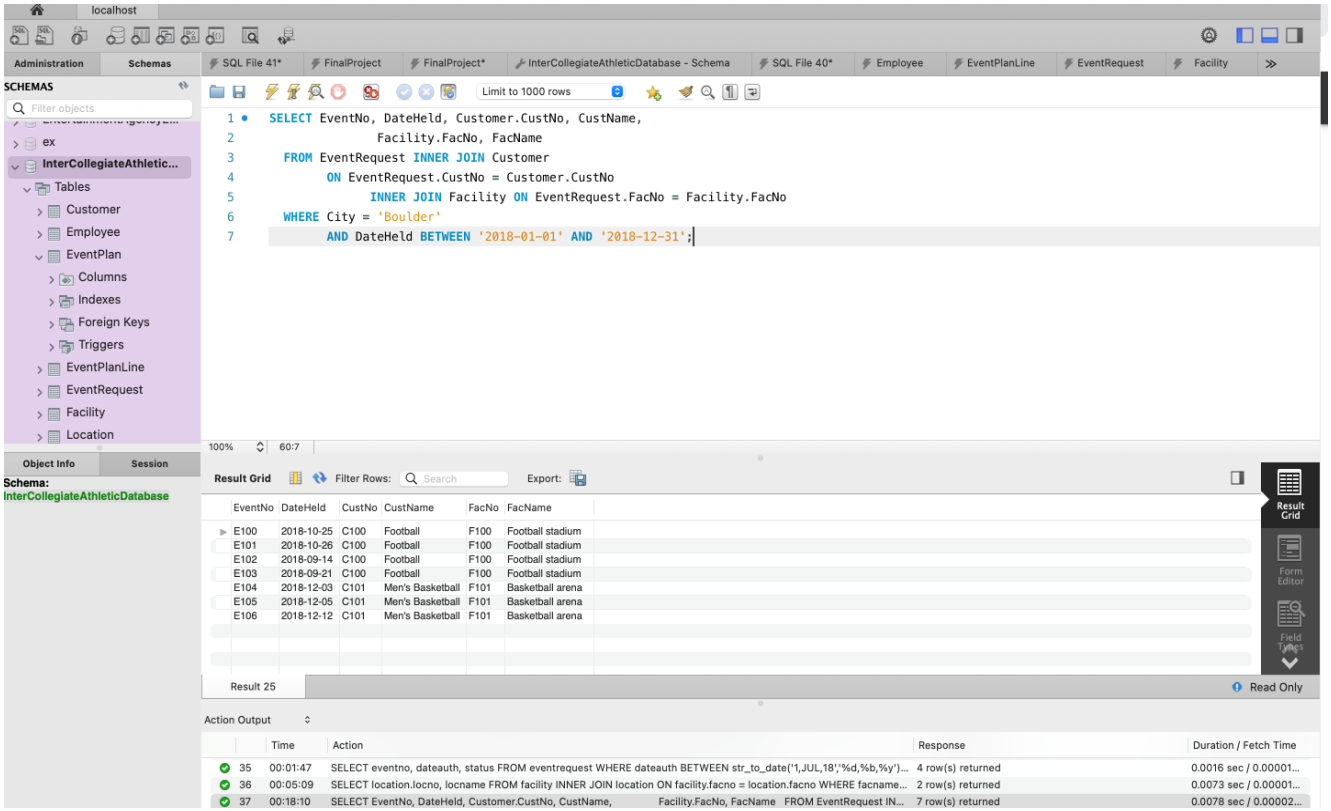
4 How to retrieve data from two or more tables

List the location number and name of locations that are part of the “Basketball arena”. Your WHERE clause should not have a condition involving the facility number compared to a constant (“F101”). Instead, you should use a condition on the FacName column for the value of “Basketball arena”.



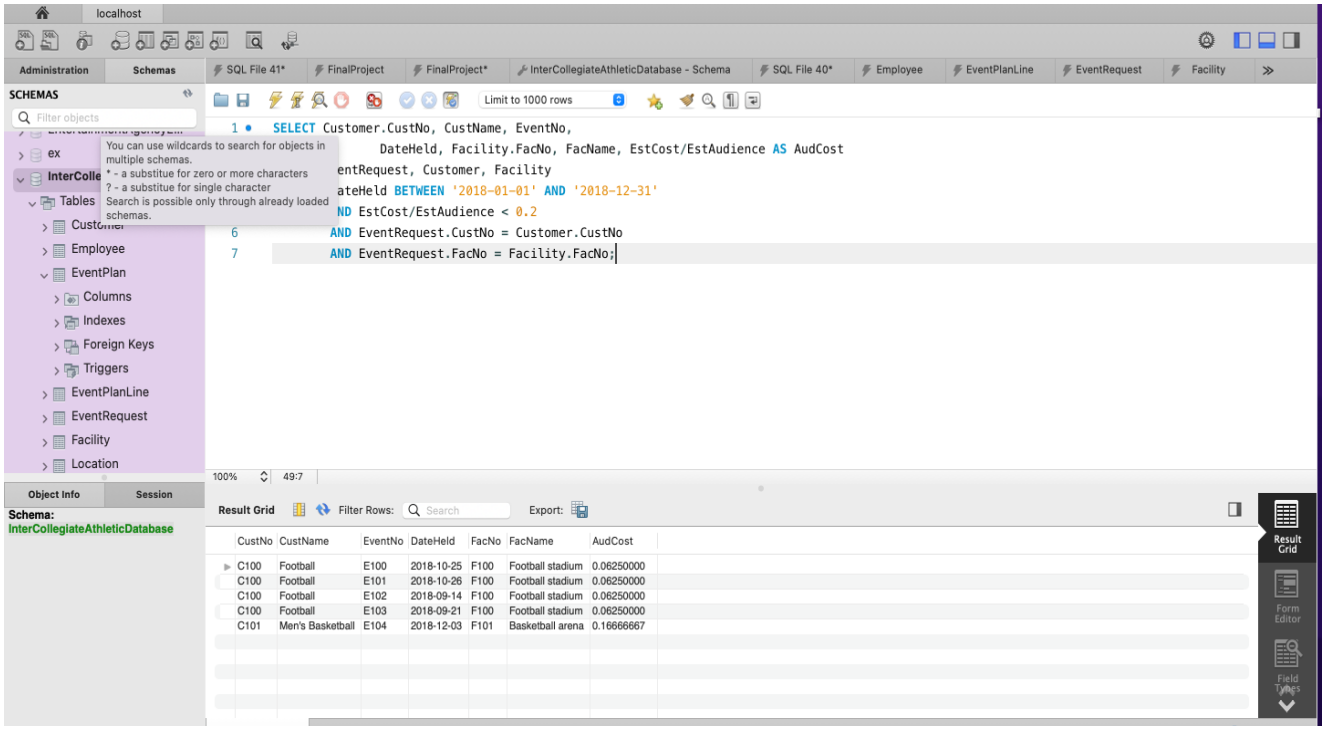
List the event number, date held, customer number, customer name, facility number, and facility name of 2018 events placed by Boulder customers.

```
SELECT EventNo, DateHeld,
Customer.CustNo, CustName,Facility.FacNo, FacName
FROM EventRequest INNER JOIN Customer
ON EventRequest.CustNo = Customer.CustNo INNER JOIN Facility
ON EventRequest.FacNo = Facility.FacNo
  WHERE City = 'Boulder'
AND DateHeld BETWEEN '2018-01-01' AND '2018-12-31';
```



List the customer number, customer name, event number, date held, facility number,

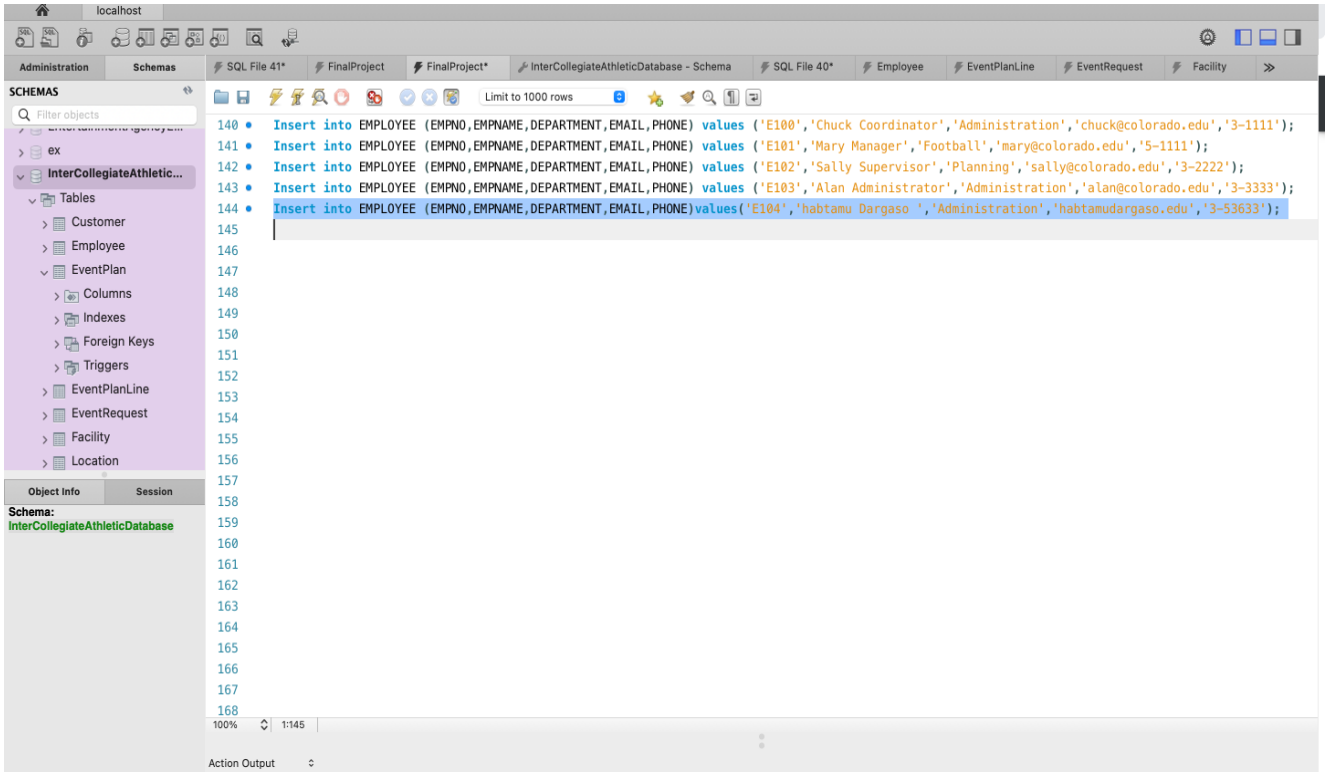
```
SELECT Customer.CustNo, CustName, EventNo,
               DateHeld, Facility.FacNo, FacName,
EstCost/EstAudience AS AudCost
  FROM EventRequest, Customer, Facility
  WHERE DateHeld BETWEEN '2018-01-01' AND '2018-12-31'
        AND EstCost/EstAudience < 0.2
        AND EventRequest.CustNo = Customer.CustNo
        AND EventRequest.FacNo = Facility.FacNo;
```



5 How to insert, update and delete data

Write an INSERT statement that adds this row to the employee table

```
Insert into EMPLOYEE
(EMPNO,EMPNAME,DEPARTMENT,EMAIL,PHONE)
values('E104','habtamu Dargaso ','Administration',
'habtamudargaso.edu','3-53633');
```



Select * from Employee