

## HEALTH CARE OPTIONS (HCO) PROJECT QUERIES

Write and execute queries to perform the following functions:

Criteria	Output Format	Your Answer: Type your query in this column. The first one has been done for you. Screenshots should be pasted below this table. (Make sure the number of rows that are returned appears in the screenshot.)
1. Display a list of all patients who have a last name beginning with the letter "P".	<p>Patient Last Name, followed by a comma and a space, followed by the patient's first name. (e.g. Smith, John)</p> <p>Sort order: Patient Last Name - ascending</p>	<pre>select Lastname + ', ' + FirstName as PatientName  from Patients  where lastname like 'P%'  order by lastname</pre>
2. Display a list of all patients who have an alternate/cell phone number	<p>Patient First Name, followed by a space, followed by the patient's last name. (e.g. Melesa Poole), alternate/cell phone number</p> <p>Sort order: Patient First Name – ascending</p> <p style="text-align: right;">Patient Last Name – ascending</p>	<pre>Select FirstName + ' ' + LastName as 'Patient Name', CellPhone as 'alternate/cell phone number'  from Patients  Where CellPhone IS NOT NULL  Order by FirstName Asc, LastName Asc</pre>

<p>3. Display a list of all patients who do <u>not</u> have an email address.</p>	<p>Patient First Name, followed by a space, followed by the patient's last name. (e.g. Melesa Poole)</p> <p>Sort order: Patient First Name – ascending</p> <p>Patient Last Name – ascending</p>	<pre>Select FirstName + ' ' + LastName as 'Patient Name'  from Patients  Where Email IS NULL  Order by FirstName asc</pre>
<p>4. Display a list of all patients who live in zipcode 24551.</p>	<p>Patient Last Name, Address1, Address2, City, State, Zip</p> <p>Sort order: Patient Last Name – descending</p>	<pre>select LastName, Address1, Address2, City, State, p.ZipCode  from Patients p INNER JOIN ZipCodes z  ON p.ZipCode = z.ZipCode  where p.ZipCode = '24551'  order by LastName desc</pre>
<p>5. Display a list of all physicians whose specialty is Internal Medicine or Orthopedics</p>	<p>Physician First Name, space, last name (call this column Physician), Specialty</p> <p>Sort order: Physician First Name – ascending</p> <p>Physician Last Name – descending</p>	<pre>select FirstName + ' ' + LastName as Physician, SpecialtyName as Specialty  from Physicians INNER JOIN PhysicianSpecialties  on Physicians.SpecialtyID = PhysicianSpecialties.SpecialtyID  where SpecialtyName = 'Internal Medicine' or SpecialtyName = 'Orthopedics'  order by FirstName asc, LastName desc</pre>

6. Display a list of all physicians, their specialties, and their practices	Physician Last Name, Specialty, Practice  Sort order: Physician Specialty – ascending  Physician Last Name – ascending  Practice – ascending	<pre> select LastName, SpecialtyName as Specialty, PracticeName as Practice  from (Physicians p inner join PhysicianSpecialties s  on p.SpecialtyID = s.SpecialtyID) inner join PhysicianPractices prac  on prac.PracticeID = p.PracticeID  order by LastName asc, PracticeName asc </pre>
7. Display a list of all physicians whose practices are in Lynchburg	Physician Last Name, Practice Name, Address, City, State, Zipcode, Phone Sort order: Zipcode – ascending Practice Name – descending Physician Last Name – ascending	<pre> select LastName, PracticeName, Address_1 as Address, City, State, z.ZipCode, Phone  from (Physicians p inner join PhysicianPractices pr  on p.PracticeID = pr.PracticeID) inner join ZipCodes z  on z.ZipCode = pr.ZipCode  where z.City = 'Lynchburg'  order by z.ZipCode asc, PracticeName desc, LastName asc </pre>
8. Display the number of physicians in each specialty	Specialty, number of physicians in each specialty Sort order: Specialty	<pre> select SpecialtyName, count(SpecialtyName) as '# of Physicians in each'  from Physicians p inner join PhysicianSpecialties s </pre>

		<pre> on p.SpecialtyID = s.SpecialtyID  group by SpecialtyName  order by SpecialtyName </pre>
9. Display the number of physicians in each practice, broken out by specialty	Practice, Specialty, number of physicians in each Sort order: Practice – ascending Specialty -- ascending	<pre> select PracticeName, SpecialtyName as Specialty, count(PracticeName) as '# of physicians in each'  from (Physicians p inner join PhysicianPractices pr  on p.PracticeID = pr.PracticeID) inner join PhysicianSpecialties s  on p.SpecialtyID = s.SpecialtyID  group by PracticeName, SpecialtyName  order by PracticeName asc, SpecialtyName asc </pre>
10. Display the list of specialties that have no physicians assigned to them.	Specialty Sort order: Specialty – ascending	<pre> select SpecialtyName as Specialty, LastName  from PhysicianSpecialties s left outer join Physicians p  on s.SpecialtyID = p.SpecialtyID  where ID IS NULL  order by SpecialtyName asc </pre>

<p>11. Display a list of all referrals whose start date was in 2013.</p>	<p>Patient first name, followed by a space, followed by patient last name (Call this whole field "Patient Name"), Referring Physician Last Name (call this field "Physician"), StartDate, EndDate</p> <p>Sort Order: StartDate – ascending Patient First Name – ascending Physician Last Name - ascending</p>	<pre>select pa.FirstName + ' ' + pa.LastName as 'Patient Name', ph.LastName as 'Physician', StartDate, EndDate  from (Referrals r inner join Patients pa  on pa.ID = r.PatientID) inner join Physicians ph  on ph.ID = r.PhysicianID  where year(StartDate) = '2013'  order by StartDate asc, pa.FirstName asc, ph.LastName asc</pre>
<p>12. Display a list of all the referrals whose start date is between October 1, 2014 and November 5, 2014</p>	<p>Patient first name, followed by a space, followed by patient last name (Call this whole field "Patient Name"), Referring Physician Last Name (call this field "Physician"), StartDate, EndDate</p> <p>Sort Order: StartDate – ascending Patient First Name – ascending Physician Last Name - ascending</p>	<pre>select pa.FirstName + ' ' + pa.LastName as 'Patient Name', ph.LastName as 'Physician', StartDate, EndDate  from (Referrals r inner join Patients pa  on pa.ID = r.PatientID) inner join Physicians ph  on ph.ID = r.PhysicianID  where StartDate &gt;= 'October 1, 2014' and StartDate &lt;= 'November 5, 2014'</pre>

		<pre>order by StartDate asc, pa.FirstName asc, ph.LastName asc</pre>
13. Display the number of referrals given by each physician	<p>Physician Last name, Physician First Name, number of referrals</p> <p>Sort Order: Physician Last Name – ascending</p> <p>Physician First Name – ascending</p>	<pre>select LastName, FirstName, count(r.PhysicianID) as 'Number of Referrals'  from Physicians p inner join Referrals r  on p.ID = r.PhysicianID  group by LastName, FirstName  order by LastName asc, FirstName asc</pre>
14. List the number of referrals in 2014 for each service requested.	<p>Service name, number of referrals</p> <p>Sort order: Service name</p>	<pre>select Services as 'Service Name', count(rs.ServiceID) as 'Number of Referrals'  from (ReferralServices rs inner join Services s  on s.ServiceID = rs.ServiceID) inner join Referrals r  on r.ReferralID = rs.ReferralID Where year(StartDate) = '2014'  group by Services</pre>

		order by Services
15. Display a list of all patients requiring exercise therapy in 2013	Patient Last Name, Patient First Name Sort order: Patient last name – ascending Patient first name – ascending	<pre> select LastName, FirstName from ((ReferralServices rs inner join Referrals r on rs.ReferralID = r.ReferralID) inner join Patients p on p.ID = r.PatientID) inner join Services s on s.ServiceID = rs.ServiceID  where year(StartDate) = 2013 AND s.Services = 'Exercise Therapy'  order by LastName asc, FirstName asc </pre>
16. Display a list of any referrals that require “Insulin injections” and “2x Daily” is NOT listed as their frequency.	Patient Last Name, Physician Last Name, referral start date Sort order: Physician Last Name – ascending Patient Last Name – ascending Referral Start Date – ascending	<pre> select pa.LastName as 'Patient Last Name', ph.LastName as 'Physician Last Name', StartDate from (((Referrals r inner join Patients pa on r.PatientID = pa.ID) inner join Physicians ph on ph.ID = r.PhysicianID) inner join ReferralServices rs on rs.ReferralID = r.ReferralID) inner join Services s </pre>

		<pre> on s.ServiceID = rs.ServiceID) inner join Frequencies f  on f.FrequencyID = rs.FrequencyID  where s.Services = 'Insulin Injections' AND f.Frequency &lt;&gt; '2X Daily'  order by ph.LastName asc, pa.LastName asc, StartDate asc </pre>
17. Display the contracts and payment methods associated with each referral	<p>Patient Last Name, Physician Last Name, Referral Start Date, Contract Start Date, Payment Method</p> <p>Sort Order: Payment Method - ascending</p> <p>Physician Last Name – ascending</p> <p>Patient Last Name – ascending</p> <p>Referral Start Date – ascending</p> <p>Contract Start Date – ascending</p>	<pre> select pa.LastName as 'Patient Last Name', ph.LastName as 'Physician Last Name', r.StartDate as 'Referral Start Date', c.StartDate as 'Contract Start Date', PaymentType as 'Payment Method'  from (((Contracts c inner join Referrals r  on c.ReferralID = r.ReferralID) inner join Patients pa  on pa.ID = r.PatientID) inner join Physicians ph  on ph.ID = r.PhysicianID) inner join PaymentTypes pt  on pt.PaymentTypeID = c.PaymentTypeID  order by PaymentType asc, ph.LastName asc, pa.LastName </pre>



		<pre>asc, r.StartDate asc, c.StartDate asc</pre>
18. Display the number of contracts whose payment method is Insurance	Number of contracts (This is a single value)	<pre>select count(c.PaymentTypeID) as 'Number of Contracts paid with Insurance'  from Contracts c inner join PaymentTypes p  on c.PaymentTypeID = p.PaymentTypeID  where PaymentType = 'Insurance'</pre>
19. Display the number of contracts whose payment method is Insurance, broken out by Insurance Company	<p>Insurance Company Name, number of contracts</p> <p>Sort order: Insurance company name</p>	<pre>select InsuranceCompany as 'Insurance Company Name', count(c.PaymentTypeID) as 'Number of Contracts paid with Insurance'  from (Contracts c inner join PaymentTypes p  on c.PaymentTypeID = p.PaymentTypeID) inner join InsuranceCompanies i  on i.InsuranceID = c.InsuranceID where PaymentType = 'Insurance'  group by InsuranceCompany</pre>

		<pre>order by InsuranceCompany</pre>
20. List the Employees who are Nurses	Employee First Name, followed by a space, followed by Employee Middle Initial, followed by a space, followed by Employee Last Name (call this whole field "Nurses")	<pre>select FirstName + ' ' + MiddleInitial + ' ' + LastName as 'Nurses'  from (Employees e inner join EmployeeRanks er  on e.RankID = er.RankID) inner join EmployeeTypes et  on et.EmployeeTypeID = er.EmpTypeID  where EmployeeType = 'Nurse'</pre>
21. Display the average hourly wage for all employees who are aides.	Average hourly wage (single value)	<pre>select avg(HourlyWage) as 'Average Hourly Wage'  from (Employees e inner join EmployeeRanks er  on e.RankID = er.RankID) inner join EmployeeTypes et  on et.EmployeeTypeID = er.EmpTypeID</pre>

		<code>where et.EmployeeType = 'Aide'</code>
22. Display the average hourly wage for all hourly employees broken out by level.	Skill level, average wage Sort order: Skill Level	<code>select SkillLevel,</code> <code>avg(HourlyWage) as 'Average</code> <code>Hourly Wage'</code>  <code>from (Employees e inner join</code> <code>EmployeeRanks er</code>  <code>on e.RankID = er.RankID) inner</code> <code>join EmployeeSkillLevels es</code>  <code>on es.SkillLevelID =</code> <code>er.SkillLevelID</code>  <code>where HourlyWage IS NOT NULL</code>  <code>group by SkillLevel</code>  <code>order by SkillLevel</code>
23. Display the total salary for all salaried employees.	Total salaries (single value)	<code>select sum(Salary) as 'Total</code> <code>Salaries'</code>  <code>from Employees</code>  <code>where Salary IS NOT NULL</code>
24. Display the number of employees assigned to each rank.	RankID, Employee Type, Skill Level, Employee Title, number of employees Sort Order: RankID – ascending Employee type – ascending Skill Level – ascending Employee Title – ascending	<code>select er.RankID, EmployeeType,</code> <code>SkillLevel, EmployeeTitle,</code> <code>count(er.RankID) as 'Number of</code> <code>Employees'</code>  <code>from (((Employees e inner join</code> <code>EmployeeRanks er</code>

		<pre> on e.RankID = er.RankID) inner join EmployeeTitles et  on et.EmployeeTitleID = er.TitleID) inner join EmployeeSkillLevels es  on es.SkillLevelID = er.SkillLevelID) inner join EmployeeTypes ety  on ety.EmployeeTypeID = er.EmpTypeID  group by er.RankID, EmployeeType, SkillLevel, EmployeeTitle  order by er.RankID asc, EmployeeType asc, SkillLevel asc, EmployeeTitle asc </pre>
<p>25. Display a list of Employees who are nurses and were available to work on Sunday evenings during the week of 11/2/2014</p>	<p>Employee Last Name, Employee First Name</p> <p>Sort order: Last Name – ascending First Name – ascending</p>	<pre> select LastName, FirstName  from (((Employees e inner join EmployeeRanks er  on e.RankID = er.RankID) inner join EmployeeTypes et  on et.EmployeeTypeID = er.EmpTypeID) inner join Availability a  on a.EmpID = e.EmpID) inner join DaysOfWeek dow  on dow.DayOfWeekID = a.DayOfWeekID) inner join Shifts s </pre>

		<p>on s.ShiftID = a.ShiftID</p> <p>where DayOfWeek = 'Sunday' and WeekOf = '11/2/2014' and ShiftName = 'Evening' and EmployeeType = 'Nurse'</p> <p>order by LastName asc, FirstName asc</p>
26. Display a list of Employees who were available to work during morning shifts during the week of 11/2/2014 and had a skill level of level 3.	<p>Employee Last Name, Employee First Name, Employee Type, Employee Title Sort order: Employee Type – ascending Employee Title – ascending Employee Last Name – ascending Employee First Name – ascending</p>	<p>select distinct LastName, FirstName, EmployeeType, EmployeeTitle</p> <p>from (((((Employees e inner join EmployeeRanks er</p> <p>on e.RankID = er.RankID) inner join EmployeeSkillLevels es</p> <p>on es.SkillLevelID = er.SkillLevelID) inner join Availability a</p> <p>on a.EmpID = e.EmpID) inner join Shifts s</p> <p>on s.ShiftID = a.ShiftID) inner join EmployeeTypes et</p> <p>on et.EmployeeTypeID = er.EmpTypeID) inner join EmployeeTitles eti</p> <p>on eti.EmployeeTitleID = er.TitleID</p>

		<p>where WeekOf = '11/2/2014' and ShiftName = 'Morning' and SkillLevel = 'Level 3'</p> <p>order by EmployeeType asc, EmployeeTitle asc, LastName asc, FirstName asc</p>
27. Display the total quantity of catheters added to inventory during 2013.	Total catheters (single value)	<p>select sum(Quantity) as 'Total Catheters in 2013'</p> <p>from SupplyInventory si inner join Supplies s</p> <p>on si.SupplyID = s.SupplyID</p> <p>where Supply = 'catheters' and year(DateReceived) = '2013'</p>

<p>28. Display the total cost of “sterile gloves – small” provided by Poole’s Medical supplies during 2013.</p>	<p>Total cost (single value)</p>	<pre>select sum(UnitCost * Quantity) as 'Total Cost'  from (SupplyInventory si inner join Supplies s  on si.SupplyID = s.SupplyID) inner join MedicalSuppliers ms  on ms.SupplierID = si.SupplierID  where year(DateReceived) = '2013' and Supply = 'sterile gloves - small' and Supplier = 'Pooles Medical Supplies'</pre>
<p>29. Display the average cost of supplies for each supply item broken out by supplier.</p>	<p>Supply, Supplier, Average cost per supply item Sort order: Supply – ascending Supplier – ascending</p>	<pre>select Supply, Supplier, sum(UnitCost * Quantity) / sum(Quantity) as 'Average Cost Per Supply Item'  from (SupplyInventory si inner join supplies s  on si.SupplyID = s.SupplyID) inner join MedicalSuppliers ms  on ms.SupplierID = si.SupplierID  group by Supply, Supplier  order by Supply asc, Supplier asc</pre>
<p>30. Display the total cost of all items purchased from suppliers broken out by supplier.</p>	<p>Supplier, Total cost of all items provided by supplier Sort order: Supplier – ascending</p>	<pre>select Supplier, sum(UnitCost * Quantity) as 'Total Cost of All Items Provided'</pre>

		<pre> from SupplyInventory si inner join MedicalSuppliers ms  on ms.SupplierID = si.SupplierID  group by Supplier  order by Supplier asc </pre>
<p>31. Display a list of all the visits that occurred from March 20, 2014 to March 25, 2014 (including March 20 and March 25)</p>	<p>DateRendered, Patient Last Name, Employee Last Name, Start Time, End time</p> <p>Sort order: DateRendered – ascending Patient Last Name – ascending Employee Last Name – ascending Start Time – ascending</p>	<pre> select DateRendered, pa.LastName as 'Patient Last Name', emp.LastName as 'Employee Last Name', StartTime, EndTime  from (Visits v inner join Patients pa  on pa.ID = v.PatientID) inner join Employees emp  on emp.EmpID = v.EmpID  where DateRendered &gt;= 'March 20, 2014' and DateRendered &lt;= 'March 25, 2014'  order by DateRendered asc, pa.LastName asc, emp.LastName asc, StartTime asc </pre>
<p>32. List the total charges for the visit that occurred on 2/12/2014 for Helen Ramirez that was provided by Laura White.</p>	<p>Total charges (single value)</p>	<pre> select sum(Charge) as 'Total Charges'  from ((Visits v inner join VisitDetails vd  on v.VisitID = vd.VisitID) inner join Employees emp </pre>



		<pre> on emp.EmplID = v.EmplID) inner join Patients p  on p.ID = v.PatientID  where p.FirstName = 'Helen' and p.LastName = 'Ramirez' and emp.FirstName = 'Laura' and emp.LastName = 'White' and DateRendered = '2/12/2014' </pre>
33. List the number of patients who received insulin injections during 2014 (Note this is the number of unique patients who ever received insulin injections – not the number of visits in which insulin injections were provided).	Total number of patients (single value)	<pre> select count (distinct PatientID) as 'Total Number of Patients'  from (Visits v inner join VisitDetails vd  on vd.VisitID = v.VisitID) inner join Services s  on s.ServiceID = vd.ServiceID  where year(DateRendered) = '2014' and Services = 'Insulin Injections' </pre>
34. List the total number of 4" self-adhesive bandages that were used in 2014	Total number of 4" self-adhesive bandages (single value)	<pre> select sum(SupplyQuantity) as 'Total number of 4" self-adhesive bandages'  from (VisitDetails vd inner join Supplies s  on vd.SupplyID = s.SupplyID) inner join Visits v  on v.VisitID = vd.VisitID </pre>

		<p>where Supply = '4" self-adhesive bandages' and</p> <p>year(DateRendered) = '2014'</p>
35. List the average charge per visit per month in 2013 broken out by months	<p>Month, average cost per visit</p> <p>Sort order: month number - ascending</p>	<p>select month(DateRendered) as 'Month' , avg(Charge) as 'Average Cost Per Visit'</p> <p>from Visits v inner join VisitDetails vd</p> <p>on v.VisitID = vd.VisitID</p> <p>where year(DateRendered) = '2014'</p> <p>group by month(DateRendered)</p> <p>order by month(DateRendered) asc</p> <p>Used '2014' because benchmark had 12 columns and there are no visits in the database for 2013</p>
36. Provide a unique list of patients who received visits for feeding from November 1, 2014 until the current date.	<p>Patient Last Name, Patient First Name</p> <p>Sort order: Patient Last Name – ascending</p> <p>Patient First Name – ascending</p>	<p>select Distinct LastName, FirstName</p> <p>from ((Visits v inner join VisitDetails vd</p> <p>on v.VisitID = vd.VisitID) inner join Services s</p> <p>on s.ServiceID = vd.ServiceID)</p> <p>inner join Patients p</p>

		<pre>on p.ID = v.PatientID  where DateRendered &gt;= 'November 1, 2014' and DateRendered &lt;= GETDATE() and Services = 'Feeding'  order by LastName asc, FirstName asc</pre>
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The screenshot shows a SQL Server Enterprise Manager window with a query editor at the top and a results pane at the bottom. The query editor contains the following SQL code:

```
select Lastname + ', ' + FirstName as PatientName
from Patients
where lastname like 'P%'
order by lastname
```

The results pane displays a table with one column, 'PatientName', and 16 rows of data. The data is sorted by last name. The status bar at the bottom indicates the connection is to 'JOSIAHS\_LAPTOP\SQLEXPRESS (...)' and that there are 44 rows in total.

	PatientName
1	Page, Curtis
2	Palmer, Catherine
3	Park, Noel
4	Parker, Diane
5	Parker, Eula
6	Parker, Pamela
7	Parker, Rebecca
8	Patterson, Christopher
9	Patterson, Cynthia
10	Patterson, Patricia
11	Payne, Antoinette
12	Pearson, Julie
13	Pena, Miranda
14	Perez, Sarah
15	Perez, John
16	Perez, Edward
17	Pedraza, Philip

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Select FirstName + ' ' + LastName as 'Patient Name', CellPhone
from Patients
Where CellPhone IS NOT NULL
Order by FirstName Asc, LastName Asc

```

99 %

Results Messages

	Patient Name	alternate/cell phone number
1	Aaron Lofer	(540) 559-6584
2	Aaron Morgan	(434) 843-6436
3	Aaron Reed	(434) 774-3353
4	Abednego Nebo	(434) 159-2495
5	Ada Ford	(434) 281-2648
6	Adam Taylor	(540) 613-8699
7	Al Duncan	(434) 821-1394
8	Al Peterson	(434) 733-8682
9	Alan Adams	(434) 523-7582
10	Alan Jones	(434) 574-8884
11	Alan Lewis	(434) 995-5498
12	Albert Gonzalez	(434) 647-1844
13	Alberto Reese	(434) 794-5224
14	Alex Brewer	(434) 442-2159
15	Amy Roberts	(434) 528-3426
16	Andrea Flores	(434) 529-9362
17	Apple Allen	(434) 666-6750

SIAHS\_LAPTOP\SQLEXPRESS (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 319 rows

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Results Messages

	Patient Name
1	Ada Ford
2	Al Peterson
3	Alejandro Santiago
4	Andrew Pop
5	Angela Allen
6	Angela Davis
7	Antoinette Payne
8	Barbara Daniely
9	Barbara Ross
10	Barney Wellman
11	Benjamin Wood
12	Betty Frazier
13	Beulah Haynes
14	Billy Peterson
15	Bobbie Riley
16	Bonnie Hopkins
17	Brenda Mitchell

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select LastName, Address1, Address2, City, State, p.ZipCode
from Patients p INNER JOIN ZipCodes z
ON p.ZipCode = z.ZipCode
where p.ZipCode = '24551'
order by LastName desc

```

99 %

Results Messages

	LastName	Address1	Address2	City	State	ZipCode
1	Wise	5779 Hidden Wynd	NULL	Forest	VA	24551
2	Wellman	8765 New York Ave.	Apt. 32-7	Forest	VA	24551
3	Washington	8194 Rocky Island Heights	NULL	Forest	VA	24551
4	Ward	2892 Middle Embers Crossing	NULL	Forest	VA	24551
5	Walker	1862 Umber Deer Passage	NULL	Forest	VA	24551
6	Stokes	5671 Old Island Isle	NULL	Forest	VA	24551
7	Scott	9071 Cotton Freeway	NULL	Forest	VA	24551
8	Santos	9854 Burning Wagon Way	NULL	Forest	VA	24551
9	Rodriguez	3227 Grand Cider Via	NULL	Forest	VA	24551
10	Roberts	6492 Clear Berry Pike	NULL	Forest	VA	24551
11	Rivera	2137 Stony Panda Expressway	NULL	Forest	VA	24551
12	Price	2435 Clear Mews	NULL	Forest	VA	24551
13	Pierce	8534 Indian Cider Point	NULL	Forest	VA	24551
14	Ortega	5348 Sleepy Wagon Jetty	NULL	Forest	VA	24551
15	Miller	1229 Clear Grove Common	NULL	Forest	VA	24551
16	Martin	9421 Noble Close	Apt. 211	Forest	VA	24551
17	Marshall	4571 Grand Close	NULL	Forest	VA	24551

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select FirstName + ' ' + LastName as Physician, SpecialtyName
from Physicians INNER JOIN PhysicianSpecialties
on Physicians.SpecialtyID = PhysicianSpecialties.SpecialtyID
where SpecialtyName = 'Internal Medicine' or SpecialtyName = '
order by FirstName asc, LastName desc

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Results Messages

	Physician	Specialty
1	Alan Brown	Internal Medicine
2	Angela Melton	Orthopedics
3	Ann Garcia	Orthopedics
4	Anthony Ross	Orthopedics
5	April Hall	Orthopedics
6	Ashley Sanders	Orthopedics
7	Brian Ramirez	Orthopedics
8	Christina Henderson	Internal Medicine
9	Craig Cox	Internal Medicine
10	Cynthia Rodriguez	Orthopedics
11	Donna Lacroix	Orthopedics
12	Earl Perez	Orthopedics
13	Eric Ward	Orthopedics
14	Gary Smith	Internal Medicine
15	Gloria Bailey	Internal Medicine
16	Harold Anderson	Orthopedics
17	John Young	Orthopedics

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select LastName, SpecialtyName as Specialty, PracticeName as Practice
from (Physicians p inner join PhysicianSpecialties s
on p.SpecialtyID = s.SpecialtyID) inner join PhysicianPractice
on prac.PracticeID = p.PracticeID
order by LastName asc, PracticeName asc

```

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Results Messages

	LastName	Specialty	Practice
1	Adams	Urology	Central VA Urology
2	Alexander	Geriatric Medicine	Central VA Physicians
3	Allen	Pain Medicine	Forest Physicians
4	Allen	Transplant Cardiology	Medical Associates of Virginia
5	Anderson	Orthopedics	Centra Orthopedics
6	Andrews	Allergy & Immunology	Piedmont Family Practice
7	Bailey	Internal Medicine	Lynchburg Regional Associates
8	Baker	Orthopedics	Orthopedic Medicine of Virginia
9	Barnes	Internal Medicine	Lynchburg Regional Associates
10	Bell	Internal Medicine	Amhurst Medicine
11	Bennett	Allergy & Immunology	Piedmont Family Practice
12	Boman	Endocrinology, Diabetes & Metabolism	Bedford Associates
13	Brooks	Rheumatology	New River Clinic
14	Brown	Internal Medicine	Amhurst Medicine
15	Bryant	Pain Medicine	Forest Physicians
16	Butler	Pain Medicine	Forest Physicians
17	Carruth	Family Medicine	Piedmont Family Practice

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select LastName, PracticeName, Address_1 as Address, City, State
from (Physicians p inner join PhysicianPractices pr
on p.PracticeID = pr.PracticeID) inner join ZipCodes z
on z.ZipCode = pr.ZipCode
where z.City = 'Lynchburg'
order by z.ZipCode asc, PracticeName desc, LastName asc

```

99 %

Results Messages

	LastName	PracticeName	Address	City	State	Zip
1	Clark	Roanoke Central Medicine	1343 Cherry Camp Road	Lynchburg	VA	24
2	Coleman	Roanoke Central Medicine	1343 Cherry Camp Road	Lynchburg	VA	24
3	Gupta	Roanoke Central Medicine	1343 Cherry Camp Road	Lynchburg	VA	24
4	Howard	Roanoke Central Medicine	1343 Cherry Camp Road	Lynchburg	VA	24
5	Johnson	Roanoke Central Medicine	1343 Cherry Camp Road	Lynchburg	VA	24
6	Lynch	Roanoke Central Medicine	1343 Cherry Camp Road	Lynchburg	VA	24
7	Moore	Roanoke Central Medicine	1343 Cherry Camp Road	Lynchburg	VA	24
8	Peterson	Roanoke Central Medicine	1343 Cherry Camp Road	Lynchburg	VA	24
9	Phillips	Roanoke Central Medicine	1343 Cherry Camp Road	Lynchburg	VA	24
10	Ross	Roanoke Central Medicine	1343 Cherry Camp Road	Lynchburg	VA	24
11	Schek	Roanoke Central Medicine	1343 Cherry Camp Road	Lynchburg	VA	24
12	Scott	Roanoke Central Medicine	1343 Cherry Camp Road	Lynchburg	VA	24
13	Williams	Roanoke Central Medicine	1343 Cherry Camp Road	Lynchburg	VA	24
14	Davis	Medical Associates of Lynchburg	875 Tail Ends Road	Lynchburg	VA	24
15	Hernandez	Medical Associates of Lynchburg	875 Tail Ends Road	Lynchburg	VA	24

JOSIAHS\_LAPTOP\SQLEXPRESS (... JOSIAHS\_LAPTOP\jbake (71) Lab5 00:00:00 79 rows

7.

kljsjflkdsjfdlkfj YI...S\_LAPTOP\jbake (71))\*

```

select SpecialtyName, count(SpecialtyName) as '# of Physicians'
from Physicians p inner join PhysicianSpecialties s
on p.SpecialtyID = s.SpecialtyID
group by SpecialtyName
order by SpecialtyName

```

99 %

Results Messages

	SpecialtyName	# of Physicians in each
1	Allergy & Immunology	8
2	Cardiothoracic Radiology	2
3	Cardiovascular	3
4	Endocrinology, Diabetes & Metabolism	9
5	Endovascular Surgical Neuroradiology	5
6	Family Medicine	10
7	Geriatric Medicine	12
8	Internal Medicine	10
9	Musculoskeletal Oncology	5
10	Neurology	2
11	Neuromuscular Medicine	9
12	Obstetrics	3
13	Ophthalmology	3
14	Orthopedics	26
15	Otolaryngology	3
16	Pain Medicine	5
17	Pediatric Cardiology	2

JOSIAHS\_LAPTOP\SQLEXPRESS (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 26 rows

8.

YI...S\_LAPTOP\jbake (71))\* X

```

select PracticeName, SpecialtyName as Specialty, count(Practice
from (Physicians p inner join PhysicianPractices pr
on p.PracticeID = pr.PracticeID) inner join PhysicianSpecialtie
on p.SpecialtyID = s.SpecialtyID
group by PracticeName, SpecialtyName
order by PracticeName asc, SpecialtyName asc

```

99 %

Results Messages

	PracticeName	Specialty	# of physicians in each
1	Amhurst Medicine	Geriatric Medicine	2
2	Amhurst Medicine	Internal Medicine	5
3	Amhurst Medicine	Neuromuscular Medicine	4
4	Amhurst Medicine	Orthopedics	1
5	Bedford Associates	Endocrinology, Diabetes & Metabolism	3
6	Blue Ridge Internal Medicine	Endocrinology, Diabetes & Metabolism	2
7	Blue Ridge Osteopathic Medicine	Endocrinology, Diabetes & Metabolism	1
8	Blue Ridge Osteopathic Medicine	Otolaryngology	3
9	Blue Ridge Osteopathic Medicine	Pediatric Cardiology	1
10	Blue Ridge Osteopathic Medicine	Pulmonary & Critical Care	5
11	Blue Ridge Osteopathic Medicine	Vascular & Interventional Radiology	2
12	Centra Family Practice	Family Medicine	3
13	Centra Orthopedics	Orthopedics	17
14	Central VA Cardiology Associates	Cardiothoracic Radiology	2
15	Central VA Physicians	Geriatric Medicine	4

JOSIAHS\_LAPTOP\SQLEXPRESS (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 49 rows

9. JOSIAHS\_LAPTOP\SQLEXPRESS (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 49 rows

kldsflkdsjfdlkfj YI...S\_LAPTOP\jbake (71))\* X

```
--select SpecialtyName as Specialty, LastName
from PhysicianSpecialties s left outer join Physicians p
on s.SpecialtyID = p.SpecialtyID
where ID IS NULL
order by SpecialtyName asc
```

99 %

Results Messages

	Specialty	LastName
1	Gastroenterology	NULL
2	Nephrology	NULL
3	Oncology	NULL
4	Otology - Neurotology	NULL
5	Thoratic Surgery	NULL

JOSIAHS\_LAPTOP\SQL EXPRESS (... JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 5 rows

10.

kdjsjfkdsjfdlkfj YI...S\_LAPTOP\jbake (71))\* X

```

select pa.FirstName + ' ' + pa.LastName as 'Patient Name', ph.L
from (Referrals r inner join Patients pa
on pa.ID = r.PatientID) inner join Physicians ph
on ph.ID = r.PhysicianID
where year(StartDate) = '2013'
order by StartDate asc, pa.FirstName asc, ph.LastName asc

```

99 %

Results Messages

	Patient Name	Physician	StartDate	EndDate
1	James Greater	Richards	2013-01-01	2013-03-02
2	Simon Peter	Pletke	2013-01-01	2013-03-02
3	John Nathan	Collins	2013-01-02	2013-03-03
4	Andrew Pop	Andrews	2013-01-03	2013-03-04
5	Bartholomew Nathaniel	Kenan	2013-01-03	2013-03-04
6	Matthew Levi	Jameson	2013-01-03	2013-03-04
7	Philip Beth	Jones	2013-01-03	2013-03-04
8	Thomas Didymus	McDonald	2013-01-03	2013-03-04
9	James Alphaeus	Johnson	2013-01-04	2013-03-05
10	Simon Zealot	Jeffries	2013-01-04	2013-03-05
11	Judas Iscariot	Boman	2013-01-05	2013-03-06
12	Thaddaeus Lebbaeus	Allen	2013-01-05	2013-03-06
13	Aaron Lofer	Cantrell	2013-01-08	2013-03-09
14	Abednego Nebo	Smith	2013-01-08	2013-03-09
15	Moses Ramser	Roarke	2013-01-08	2013-03-09
16	Jacob Smalls	Gray	2013-01-10	2013-03-11
17	John Frisvold	Gray	2013-01-10	2013-03-11

OSIAHS\_LAPTOP\SQLEXPRESS (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 400 rows

11.

kidsjflkdsjfdlkfj YI...S\_LAPTOP\jbake (71))\*

```

select pa.FirstName + ' ' + pa.LastName as 'Patient Name', ph.L
from (Referrals r inner join Patients pa
on pa.ID = r.PatientID) inner join Physicians ph
on ph.ID = r.PhysicianID
where StartDate >= 'October 1, 2014' and StartDate <= 'November
order by StartDate asc, pa.FirstName asc, ph.LastName asc

```

99 %

Results Messages

	Patient Name	Physician	StartDate	EndDate
37	Janice Beck	Lopez	2014-10-23	2014-12-22
38	Lewis Guzman	Collins	2014-10-23	2014-12-22
39	Joey Hodges	James	2014-10-24	2014-12-23
40	Meredith Tran	Bryant	2014-10-24	2014-12-23
41	Roger Moody	Barnes	2014-10-25	2014-12-24
42	Myron Adkins	Foster	2014-10-26	2014-12-25
43	Curtis Page	Baker	2014-10-27	2014-12-26
44	Neal Miles	Scott	2014-10-27	2014-12-26
45	Peter Hammond	Gonzales	2014-10-28	2014-12-27
46	Kerry Higgins	Cooper	2014-10-29	2014-12-28
47	Simon Knight	Sanchez	2014-10-29	2014-12-28
48	Salvador Jenkins	Long	2014-10-30	2014-12-29
49	Jeremiah Fields	Butler	2014-11-01	2014-12-31
50	Winifred Ruiz	Green	2014-11-02	2015-01-01
51	Charlie Edwards	Adams	2014-11-04	2015-01-03
52	Reginald Baldwin	Cox	2014-11-04	2015-01-03

JOSIAHS\_LAPTOP\SQLEXPRESS (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 52 rows

12.

kidsjflkdsjfdlkfj Yl...S\_LAPTOP\jbake (71))\*

```

select LastName, FirstName, count(r.PhysicianID) as 'Number of
from Physicians p inner join Referrals r
on p.ID = r.PhysicianID
group by LastName, FirstName
order by LastName asc, FirstName asc

```

99 %

Results Messages

	LastName	FirstName	Number of Referrals
1	Adams	Michael	5
2	Alexander	Daniel	5
3	Allen	Andrea	5
4	Allen	Jonas	6
5	Anderson	Harold	5
6	Andrews	David	6
7	Bailey	Gloria	5
8	Baker	Keith	5
9	Barnes	Phillip	5
10	Bell	Jessica	5
11	Bennett	Carol	5
12	Boman	Paul	6
13	Brooks	Walter	5
14	Brown	Alan	5
15	Bryant	Mark	5
16	Butler	Marilyn	5
17	Campbell	Linda	5

JOSIAHS\_LAPTOP\SQLEXPRESS (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 158 rows

13.



kldsflkdsjfdlkfj Yl...S\_LAPTOP\jbake (71))\*

```

select Services as 'Service Name', count(rs.ServiceID) as 'Number of Referrals'
from (ReferralServices rs inner join Services s
on s.ServiceID = rs.ServiceID) inner join Referrals r
on r.ReferralID = rs.ReferralID
Where year(StartDate) = '2014'
group by Services
order by Services

```

99 %

Results Messages

	Service Name	Number of Referrals
1	Bathing	54
2	Blood Pressure Monitoring	54
3	Blood Tests	63
4	Breathing Treatments	53
5	Catheter Care	63
6	Exercise Therapy	54
7	Feeding	54
8	Feeding Tube Care	52
9	General Hygiene	61
10	Injections (Other)	50
11	Insulin Injections	66
12	IV Maintenance	57
13	Medicine Administration	60
14	Surgical Prep	51
15	Wound Dressing	53

JOSIAHS\_LAPTOP\SQL EXPRESS (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 15 rows

14.

kldsiflkdsjfdlkfj YI...S\_LAPTOP\jbake (71))\*

```

select LastName, FirstName
from ((ReferralServices rs inner join Referrals r
on rs.ReferralID = r.ReferralID) inner join Patients p
on p.ID = r.PatientID) inner join Services s
on s.ServiceID = rs.ServiceID
where year(StartDate) = 2013 AND s.Services = 'Exercise Therapy'
order by LastName asc, FirstName asc

```

99 %

Results Messages

	LastName	FirstName
1	Alvarado	Lorene
2	Andrews	Guillermo
3	Armstrong	Willard
4	Banks	Dora
5	Barnett	Lionel
6	Bennett	Janice
7	Burke	Morris
8	Byrd	Ben
9	Clayton	Irene
10	Coleman	Maria
11	Cox	Willie
12	Flores	Michelle
13	Fontaine	Alfred
14	Foster	Jeremy
15	Garcia	Ora
16	Gill	Lora
17	Grant	Paul

JOSIAHS\_LAPTOP\SQLSERVER (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 52 rows

15.

kldsjflkdsjfdlkfj YI...S\_LAPTOP\jbake (71))\*

```

select pa.LastName as 'Patient Last Name', ph.LastName as 'Phys
from (((Referrals r inner join Patients pa
on r.PatientID = pa.ID) inner join Physicians ph
on ph.ID = r.PhysicianID) inner join ReferralServices rs
on rs.ReferralID = r.ReferralID) inner join Services s
on s.ServiceID = rs.ServiceID) inner join Frequencies f
on f.FrequencyID = rs.FrequencyID
where s.Services = 'Insulin Injections' AND f.Frequency <> '2X
order by ph.LastName asc, pa.LastName asc, StartDate asc

```

99 %

Results Messages

	Patient Last Name	Physician Last Name	StartDate
1	Lawson	Allen	2013-06-21
2	Sanders	Bryant	2014-02-05
3	Simpson	Cook	2014-05-08
4	Lowe	Howard	2014-05-30
5	Miller	James	2013-04-12
6	Byrd	Jeffries	2014-11-22
7	Fernandez	King	2013-08-18
8	Franklin	Perry	2014-10-09
9	Gill	Sanders	2014-09-14
10	Powell	Smith	2013-05-14

JOSIAHS\_LAPTOP\SQLEXPRESS (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 10 rows

16.

YI...S\_LAPTOP\jbake (71))\*

```

select pa.LastName as 'Patient Last Name', ph.LastName as 'Phys
from (((Contracts c inner join Referrals r
on c.ReferralID = r.ReferralID) inner join Patients pa
on pa.ID = r.PatientID) inner join Physicians ph
on ph.ID = r.PhysicianID) inner join PaymentTypes pt
on pt.PaymentTypeID = c.PaymentTypeID
order by PaymentType asc, ph.LastName asc, pa.LastName asc, r.S

```

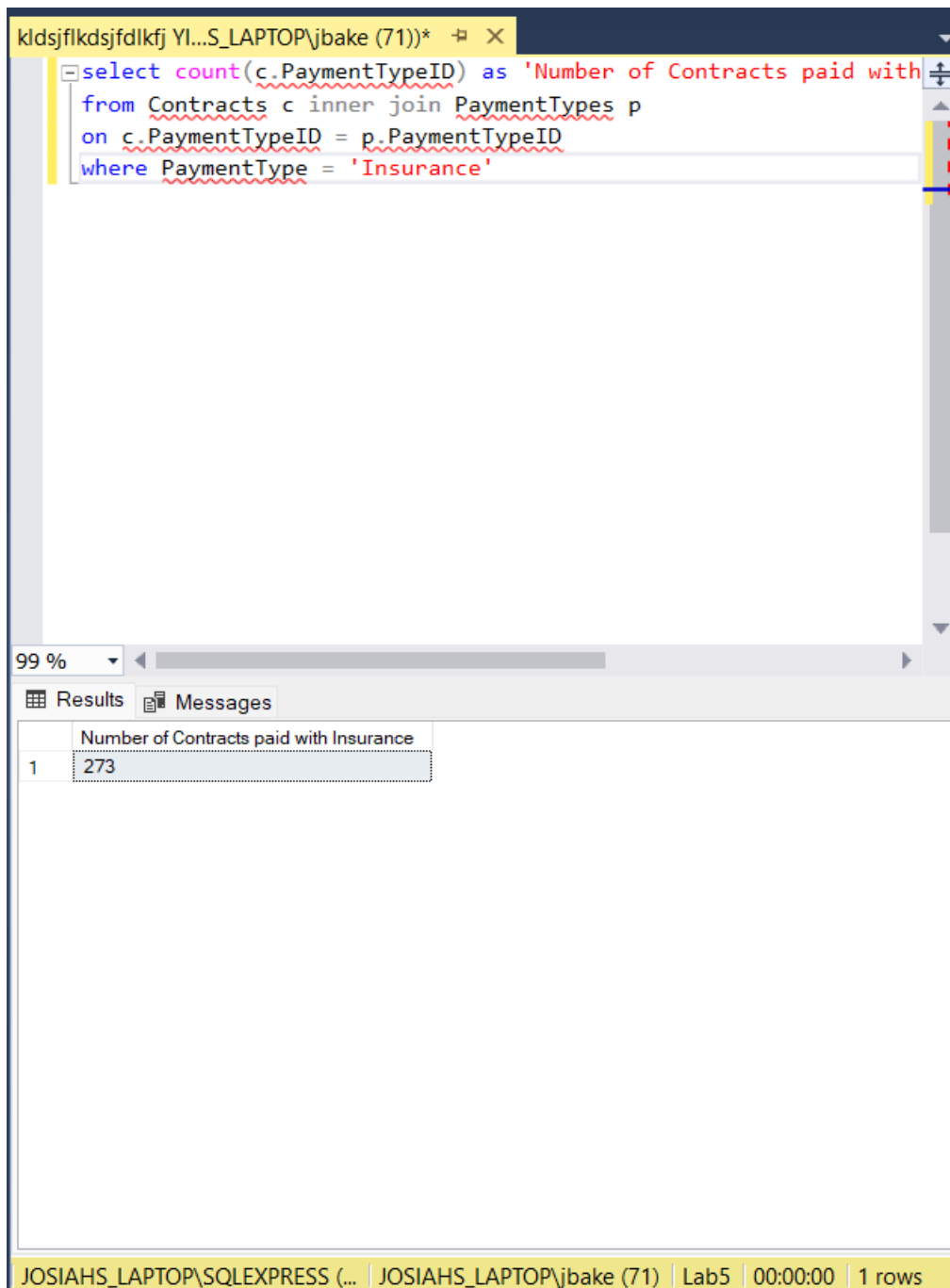
99 %

Results Messages

	Patient Last Name	Physician Last Name	Referral Start Date	Contract Start Date	Payment Met
1	Edwards	Adams	2014-11-04	2014-11-04	Insurance
2	Jenkins	Adams	2013-04-27	2013-04-27	Insurance
3	Terry	Adams	2013-09-22	2013-09-22	Insurance
4	Bryant	Alexander	2013-12-25	2013-12-25	Insurance
5	Stewart	Alexander	2013-03-02	2013-03-02	Insurance
6	Lawson	Allen	2013-06-21	2013-06-21	Insurance
7	Washington	Allen	2014-04-06	2014-04-06	Insurance
8	Miles	Anderson	2013-07-22	2013-07-22	Insurance
9	Tucker	Anderson	2014-04-30	2014-04-30	Insurance
10	Butler	Andrews	2014-02-21	2014-02-21	Insurance
11	Thornton	Andrews	2013-09-28	2013-09-28	Insurance
12	Bennett	Bailey	2014-08-24	2014-08-24	Insurance
13	Green	Bailey	2013-11-27	2013-11-27	Insurance
14	Washington	Baker	2013-04-15	2013-04-15	Insurance
15	May	Bell	2013-08-22	2013-08-22	Insurance

OSIAHS\_LAPTOP\SQLEXPRESS (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 825 rows

17.



The screenshot shows a SQL Server Enterprise Manager query window. The query is as follows:

```
select count(c.PaymentTypeID) as 'Number of Contracts paid with Insurance'
from Contracts c inner join PaymentTypes p
on c.PaymentTypeID = p.PaymentTypeID
where PaymentType = 'Insurance'
```

The query results are displayed in a table with one row:

	Number of Contracts paid with Insurance
1	273

The status bar at the bottom indicates: JOSIAHS\_LAPTOP\SQLEXPRESS (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 1 rows

18.

kdjsjfkdsjfdlkfj YI...S\_LAPTOP\jbake (71))\* + X

```

select InsuranceCompany as 'Insurance Company Name', count(c.PaymentTypeID)
from (Contracts c inner join PaymentTypes p
on c.PaymentTypeID = p.PaymentTypeID) inner join InsuranceCompany i
on i.InsuranceID = c.InsuranceID
where PaymentType = 'Insurance'
group by InsuranceCompany
order by InsuranceCompany

```

99 %

Results Messages

	Insurance Company Name	Number of Contracts paid with Insurance
1	All Insurance	62
2	Best Insurance	54
3	Friendly Insurance	45
4	Insurance One	44
5	Safety Insurance	68

JOSIAHS\_LAPTOP\SQLEXPRESS (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 5 rows

19.

kdsjflkdsjfdlkfj YI...S\_LAPTOP\jbake (71))\*

```

select FirstName + ' ' + MiddleInitial + ' ' + LastName as 'Nurses'
from (Employees e inner join EmployeeRanks er
on e.RankID = er.RankID) inner join EmployeeTypes et
on et.EmployeeTypeID = er.EmpTypeID
where EmployeeType = 'Nurse'

```

99 %

Results Messages

	Nurses
1	Jimmy T Alexander
2	NULL
3	Annie S Barnes
4	Craig G Campbell
5	Ruby F Clark
6	Georgina A Cox
7	Gary U Diaz
8	Barbara N Echols
9	Keith O Evans
10	Betty T Gonzalez
11	Mary J Granda
12	Aaron S Henderson
13	Todd R Hill
14	Tammy S Jackson
15	Jena B Jena
16	Michelle D Johnson
17	Richard T Kel...

JOSIAHS\_LAPTOP\SQLSERVER (71) | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 34 rows

20.

The screenshot shows a SQL Server Enterprise Manager window with a query editor and a results pane. The query editor contains the following SQL code:

```
select avg(HourlyWage) as 'Average Hourly Wage'
from (Employees e inner join EmployeeRanks er
on e.RankID = er.RankID) inner join EmployeeTypes et
on et.EmployeeTypeID = er.EmpTypeID
where et.EmployeeType = 'Aide'
```

The results pane shows a single row with the value 10.857142 for the column Average Hourly Wage.

	Average Hourly Wage
1	10.857142

The status bar at the bottom of the window displays: JOSIAHS\_LAPTOP\SQLEXPRESS (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 1 rows

21.



kldsiflkdsjfdlkfj YI...S\_LAPTOP\jbake (71))\*

```
--select SkillLevel, avg(HourlyWage) as 'Average Hourly Wage'
from (Employees e inner join EmployeeRanks er
on e.RankID = er.RankID) inner join EmployeeSkillLevels es
on es.SkillLevelID = er.SkillLevelID
where HourlyWage IS NOT NULL
group by SkillLevel
order by SkillLevel
```

99 %

Results Messages

	SkillLevel	Average Hourly Wage
1	Level 1	10.300000
2	Level 2	16.857142
3	Level 3	33.500000

JOSIAHS\_LAPTOP\SQLEXPRESS (... JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 3 rows

22.

The screenshot shows a SQL Server Enterprise Manager window. The top pane contains a SQL query: `select sum(Salary) as 'Total Salaries' from Employees where Salary IS NOT NULL`. The bottom pane shows the results of the query in a table with one row and one column.

	Total Salaries
1	291000.00

The status bar at the bottom indicates the connection is to 'JOSIAHS\_LAPTOP\SQLEXPRESS (...)' and the query was executed on 'JOSIAHS\_LAPTOP\jbake (71)'. It also shows 'Lab5', a duration of '00:00:00', and '1 rows'.

23. JOSIAHS\_LAPTOP\SQLEXPRESS (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 1 rows

kldsflkdsjfdlkfj YI...S\_LAPTOP\jbake (71))\*

```

select er.RankID, EmployeeType, SkillLevel, EmployeeTitle, count(*) as Number of Employees
from (((Employees e inner join EmployeeRanks er
on e.RankID = er.RankID) inner join EmployeeTitles et
on et.EmployeeTitleID = er.TitleID) inner join EmployeeSkillLevels es
on es.SkillLevelID = er.SkillLevelID) inner join EmployeeTypes ety
on ety.EmployeeTypeID = er.EmpTypeID
group by er.RankID, EmployeeType, SkillLevel, EmployeeTitle
order by er.RankID asc, EmployeeType asc, SkillLevel asc, EmployeeTitle asc

```

99 %

Results Messages

	RankID	EmployeeType	SkillLevel	EmployeeTitle	Number of Employees
1	1	Nurse	Level 2	LPN-1	3
2	2	Nurse	Level 2	LPN-2	5
3	3	Nurse	Level 3	LPN-3	2
4	4	Nurse	Level 3	LPN-4	2
5	5	Nurse	Level 3	LPN-5	2
6	6	Nurse	Level 3	RN-1	2
7	7	Nurse	Level 3	RN-2	2
8	8	Nurse	Level 3	RN-3	2
9	9	Nurse	Level 3	RN-4	2
10	10	Nurse	Level 3	RN-5	6
11	11	Nurse	Level 3	RN-6	3
12	12	Nurse	Level 3	RN-7	3
13	13	Aide	Level 1	A-1	3
14	14	Aide	Level 1	A-2	3
15	15	Aide	Level 1	A-3	3
16	16	Aide	Level 1	A-4	3
17	17	Aide	Level 1	A-5	3

JOSIAHS\_LAPTOP\SQLEXPRESS (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 19 rows

24.

kldsflkdsjfdlkfj YI...S\_LAPTOP\jbake (71))\* X

```

select LastName, FirstName
from (((Employees e inner join EmployeeRanks er
on e.RankID = er.RankID) inner join EmployeeTypes et
on et.EmployeeTypeID = er.EmpTypeID) inner join Availability a
on a.EmpID = e.EmpID) inner join DaysOfWeek dow
on dow.DayOfWeekID = a.DayOfWeekID) inner join Shifts s
on s.ShiftID = a.ShiftID
where DayOfWeek = 'Sunday' and WeekOf = '11/2/2014' and ShiftNa
order by LastName asc, FirstName asc

```

99 %

Results Messages

	LastName	FirstName
1	Alexander	Jimmy
2	Cox	Georgina
3	Hill	Todd
4	Johnson	Michelle
5	Kelly	Richard
6	Morgan	Janice
7	Powell	Alice
8	Smith	Randy
9	Taylor	Ashley
10	White	Laura

JOSIAHS\_LAPTOP\SQLEXPRESS (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 10 rows

25.

kdslfklkdsjfdlkfj YI...S\_LAPTOP\jbake (71))\* X

```

select distinct LastName, FirstName, EmployeeType, EmployeeTitle
from (((((Employees e inner join EmployeeRanks er
on e.RankID = er.RankID) inner join EmployeeSkillLevels es
on es.SkillLevelID = er.SkillLevelID) inner join Availability a
on a.EmpID = e.EmpID) inner join Shifts s
on s.ShiftID = a.ShiftID) inner join EmployeeTypes et
on et.EmployeeTypeID = er.EmployeeTypeID) inner join EmployeeTitles
on eti.EmployeeTitleID = er.TitleID
where WeekOf = '11/2/2014' and ShiftName = 'Morning' and SkillLevelID = 1
order by EmployeeType asc, EmployeeTitle asc, LastName asc, FirstName asc

```

99 %

Results Messages

	LastName	FirstName	EmployeeType	EmployeeTitle
1	Lee	Jeffrey	Nurse	LPN-3
2	Wilson	Jerry	Nurse	LPN-3
3	Smith	Randy	Nurse	LPN-4
4	White	Laura	Nurse	LPN-4
5	Alexander	Jimmy	Nurse	LPN-5
6	Evans	Keith	Nurse	LPN-5
7	Lopez	Carlos	Nurse	RN-1
8	Thompson	Wilma	Nurse	RN-1
9	Cox	Georgina	Nurse	RN-2
10	Kelly	Richard	Nurse	RN-2
11	Jackson	Tammy	Nurse	RN-3
12	Rogers	Maria	Nurse	RN-3
13	Johnson	Michelle	Nurse	RN-4
14	Long	Marie	Nurse	RN-4
15	Baker	Louis	Nurse	RN-5
16	Clark	Ruby	Nurse	RN-5
17	Handerson	Aaron	Nurse	RN-5

JOSIAHS\_LAPTOP\SQLSERVER (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 26 rows

26.

The screenshot shows a SQL Server Enterprise Manager window with a query editor and a results pane. The query editor contains the following SQL code:

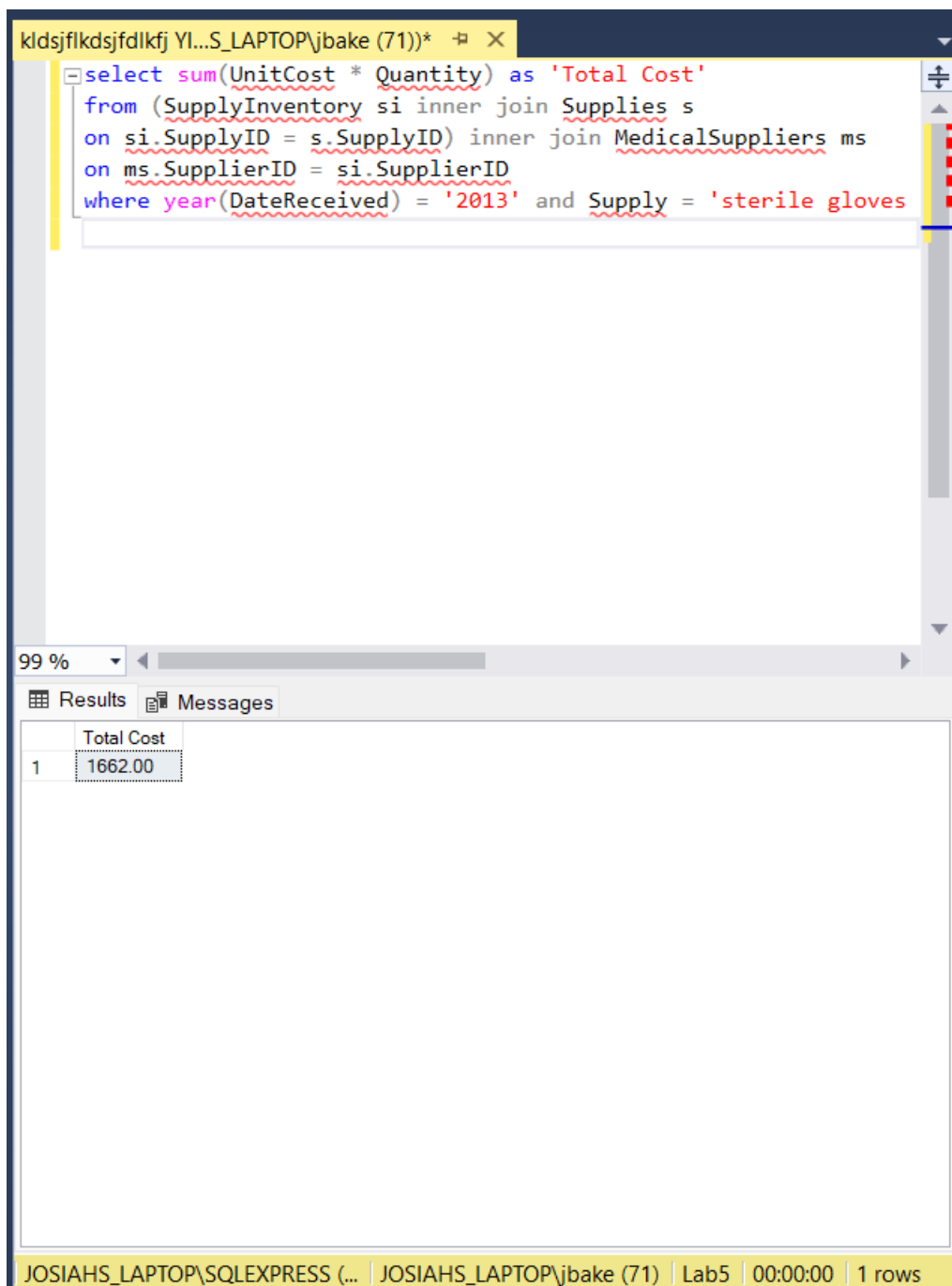
```
select sum(Quantity) as 'Total Catheters in 2013'
from SupplyInventory si inner join Supplies s
on si.SupplyID = s.SupplyID
where Supply = 'catheters' and year(DateReceived) = '2013'
```

The results pane shows a single row with the value 283 for the column 'Total Catheters in 2013'.

	Total Catheters in 2013
1	283

The status bar at the bottom of the window displays: JOSIAHS\_LAPTOP\SQLEXPRESS (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 1 rows

27.



The screenshot shows a SQL Server Enterprise Manager query window. The title bar indicates the file path is 'kldsflkdsjfdlkfj YI...S\_LAPTOP\jbake (71))'. The query editor contains the following T-SQL code:

```
select sum(UnitCost * Quantity) as 'Total Cost'
from (SupplyInventory si inner join Supplies s
on si.SupplyID = s.SupplyID) inner join MedicalSuppliers ms
on ms.SupplierID = si.SupplierID
where year(DateReceived) = '2013' and Supply = 'sterile gloves'
```

Below the query editor, the 'Results' tab is active, displaying a single row of data:

	Total Cost
1	1662.00

The status bar at the bottom of the window shows the connection 'JOSIAHS\_LAPTOP\SQLEXPRESS (...)', the server 'JOSIAHS\_LAPTOP\jbake (71)', the database 'Lab5', the execution time '00:00:00', and the number of rows '1 rows'.

28.

kldsiflkdsjfdlkfj YI...S\_LAPTOP\jbake (71))\* X

```

select Supply, Supplier, sum(UnitCost * Quantity) / sum(Quantit
from (SupplyInventory si inner join supplies s
on si.SupplyID = s.SupplyID) inner join MedicalSuppliers ms
on ms.SupplierID = si.SupplierID
group by Supply, Supplier
order by Supply asc, Supplier asc

```

99 %

Results Messages

	Supply	Supplier	Average Cost Per Supply Item
1	10mm syringes	Lynchburg Medical Supplies	5.438871
2	10mm syringes	Pooles Medical Supplies	6.429104
3	2" Gauze	Lynchburg Medical Supplies	5.267657
4	2" Gauze	Virginia Medical Supplies	5.871621
5	2" self-adhesive bandages	Pooles Medical Supplies	6.210332
6	2" self-adhesive bandages	Virginia Medical Supplies	3.645522
7	4" Gauze	Lynchburg Medical Supplies	5.863138
8	4" self-adhesive bandages	Pooles Medical Supplies	6.323232
9	4" self-adhesive bandages	Virginia Medical Supplies	4.736842
10	adhesive tape - 1 1/2 in.	Pooles Medical Supplies	5.239564
11	adhesive tape - 2 in.	Virginia Medical Supplies	4.855172
12	catheters	Lynchburg Medical Supplies	4.749116
13	catheters	Virginia Medical Supplies	5.979674
14	paper adhesive tape	Lynchburg Medical Supplies	4.748148
15	paper adhesive tape	Virginia Medical Supplies	4.344410
16	sterile gloves - large	Lynchburg Medical Supplies	6.550218
17	sterile gloves - large	Pooles Medical Supplies	5.188876

JOSIAHS\_LAPTOP\SQLEXPRESS (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 22 rows

29.



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```
select Supplier, sum(UnitCost * Quantity) as 'Total Cost of All  
from SupplyInventory si inner join MedicalSuppliers ms  
on ms.SupplierID = si.SupplierID  
group by Supplier  
order by Supplier asc
```

99 %

Results Messages

	Supplier	Total Cost of All Items Provided
1	Lynchburg Medical Supplies	11961.00
2	Pooles Medical Supplies	15712.00
3	Virginia Medical Supplies	11506.00

JOSIAHS\_LAPTOP\SQLEXPRESS (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 3 rows

30.

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```

select DateRendered, pa.LastName as 'Patient Last Name', emp.La
from (Visits v inner join Patients pa
on pa.ID = v.PatientID) inner join Employees emp
on emp.EmpID = v.EmpID
where DateRendered >= 'March 20, 2014' and DateRendered <= 'Mar
order by DateRendered asc, pa.LastName asc, emp.LastName asc, S

```

99 %

Results Messages

	DateRendered	Patient Last Name	Employee Last Name	StartTime	EndTime
1	2014-03-20	Adams	Nelson	13:00:00.0000000	13:30:00.0000000
2	2014-03-20	Allen	Jenkins	15:00:00.0000000	15:30:00.0000000
3	2014-03-20	Anderson	Coleman	19:00:00.0000000	19:30:00.0000000
4	2014-03-20	Anderson	Huddleston	09:00:00.0000000	09:30:00.0000000
5	2014-03-20	Baker	Lewis	13:00:00.0000000	13:30:00.0000000
6	2014-03-20	Bell	Lopez	10:00:00.0000000	10:30:00.0000000
7	2014-03-20	Bennett	Johnson	13:00:00.0000000	13:30:00.0000000
8	2014-03-20	Brooks	Green	15:00:00.0000000	15:30:00.0000000
9	2014-03-20	Butler	Murphy	10:00:00.0000000	10:30:00.0000000
10	2014-03-20	Campbell	Dennison	10:00:00.0000000	10:30:00.0000000
11	2014-03-20	Carter	Scott	18:00:00.0000000	18:30:00.0000000
12	2014-03-20	Coleman	King	15:00:00.0000000	15:30:00.0000000
13	2014-03-20	Cook	Murphy	16:00:00.0000000	16:30:00.0000000
14	2014-03-20	Cooper	Williams	15:00:00.0000000	15:30:00.0000000
15	2014-03-20	Davis	Chen	10:00:00.0000000	10:30:00.0000000

OSIAHS\_LAPTOP\SQLEXPRESS (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 472 rows

31.

The screenshot shows a SQL query editor window with the following query:

```
select sum(Charge) as 'Total Charges'
from ((Visits v inner join VisitDetails vd
on v.VisitID = vd.VisitID) inner join Employees emp
on emp.EmpID = v.EmpID) inner join Patients p
on p.ID = v.PatientID
where p.FirstName = 'Helen' and p.LastName = 'Ramirez' and emp.
```

Below the query editor, the 'Results' tab is active, displaying a single row of data:

	Total Charges
1	99.00

The status bar at the bottom indicates the connection is 'JOSIAHS\_LAPTOP\SQLEXPRESS (...)' and the query was executed on 'JOSIAHS\_LAPTOP\bake (71)' in 'Lab5' at '00:00:00', resulting in '1 rows'.

32. JOSIAHS\_LAPTOP\SQLEXPRESS (... | JOSIAHS\_LAPTOP\bake (71) | Lab5 | 00:00:00 | 1 rows

kdsjflkdsjfdlkfj YI...S\_LAPTOP\jbake (71))\*

```
select count (distinct PatientID) as 'Total Number of Patients'
from (Visits v inner join VisitDetails vd
on vd.VisitID = v.VisitID) inner join Services s
on s.ServiceID = vd.ServiceID
where year(DateRendered) = '2014' and Services = 'Insulin Injec
```

99 %

Results Messages

	Total Number of Patients
1	58

JOSIAHS\_LAPTOP\SQLEXPRESS (... JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 1 rows

33.

The screenshot shows a SQL Server Enterprise Manager window with a query editor at the top and a results pane at the bottom. The query editor contains the following SQL code:

```
select sum(SupplyQuantity) as 'Total number of 4" self-adhesive  
from (VisitDetails vd inner join Supplies s  
on vd.SupplyID = s.SupplyID) inner join Visits v  
on v.VisitID = vd.VisitID  
where Supply = '4" self-adhesive bandages' and year(DateRendered
```

The results pane shows a single row with the following data:

	Total number of 4" self-adhesive bandages
1	3453

The status bar at the bottom of the window displays: JOSIAHS\_LAPTOP\SQLEXPRESS (... | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 1 rows

34.

The screenshot shows a SQL Server Enterprise Manager window with a query editor at the top and a results pane at the bottom. The query editor contains the following SQL code:

```
select month(DateRendered) as 'Month' , avg(Charge) as 'Average'
from Visits v inner join VisitDetails vd
on v.VisitID = vd.VisitID
where year(DateRendered) = '2014'
group by month(DateRendered)
order by month(DateRendered) asc
```

The results pane displays a table with two columns: 'Month' and 'Average Cost Per Visit'. The table contains 12 rows of data, representing the months of the year 2014. The 'Month' column is highlighted with a mouse cursor.

	Month	Average Cost Per Visit
1	1	69.671517
2	2	69.688082
3	3	69.716751
4	4	69.479068
5	5	69.950847
6	6	69.850381
7	7	69.467087
8	8	69.785130
9	9	68.834904
10	10	69.632251
11	11	69.006544
12	12	69.650115

The status bar at the bottom of the window indicates the connection is to 'JOSIAHS\_LAPTOP\SQLEXPRESS (...)' and the query returned 12 rows.

35.

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```

select Distinct LastName, FirstName
from ((Visits v inner join VisitDetails vd
on v.VisitID = vd.VisitID) inner join Services s
on s.ServiceID = vd.ServiceID) inner join Patients p
on p.ID = v.PatientID
where DateRendered >= 'November 1, 2014' and DateRendered <= GE
order by LastName asc, FirstName asc

```

99 %

Results Messages

	LastName	FirstName
1	Beck	Janice
2	Chandler	Ernesto
3	Clifford	Betty
4	Dobbins	Juliana
5	Frank	Danny
6	Franklin	Belinda
7	Gill	Lora
8	Gonzales	Cheryl
9	Gonzalez	Albert
10	Grayson	Alex
11	Green	Richard
12	Hall	Karla
13	Hammond	Peter
14	Lawson	Hazel
15	Lowe	William
16	Marsh	Earl
17	Medina	Dan

JOSIAHS\_LAPTOP\SQLSERVER (71) | JOSIAHS\_LAPTOP\jbake (71) | Lab5 | 00:00:00 | 29 rows

36.