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-- Create a list of patients and the medications they currently take. Sort your list
by patient's last name and medication name in alphabetical order. Include other
applicable details such as date prescribed and dosage.
-- Query a
SELECT p.LName AS LastName, p.FName AS FirstName, m.DrugName, pm.PrescripStart AS
DatePrescribed, m.Dosage
FROM Person p
INNER JOIN Patient a ON p.PersonID = a.PatientID
INNER JOIN Patient_Medication pm ON pm.PatientID = p.PersonID
INNER JOIN Medication m ON m.MedicationID = pm.MedicationID
WHERE pm.PrescripStart < DATE('now')
AND pm.PrescripEnd > DATE('now') OR pm.PrescripEnd IS NULL
ORDER BY p.LName, m.DrugName;

-- Display patient information for patients who currently have Delta Dental insurance
policy.
-- Query b
SELECT p.LName AS LastName, p.FName AS FirstName, a.LastSignedHIPAA, a.LastXRay,
ip.PlanID AS InsurancePlanID
FROM Person p
INNER JOIN Patient a ON p.PersonID = a.PatientID
INNER JOIN InsurancePlan ip ON a.PatientID = ip.PatientID
INNER JOIN InsuranceCompany ic ON ip.CompanyID = ic.CompanyID
WHERE ic.CompanyName = 'Delta Dental';

-- Generate a list of procedures and service dates performed by Dr. Smilow
-- Query c
SELECT pr.ProcedureID, pr.ProcedureType, pr.ProcedureDate
FROM Person p
INNER JOIN Employee e ON p.PersonID = e.EmployeeID
INNER JOIN Licensure l ON e.EmployeeID = l.MedicalID
INNER JOIN Licensure_Procedure lp ON l.LicenseNumber = lp.LicenseNumber
INNER JOIN Procedure pr ON lp.ProcedureID = pr.ProcedureID
WHERE p.LName = 'Smilow';

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-- Print out a list of due invoices with patient contact info.
-- Query d
SELECT p.LName, p.FName, p.PhoneNumber, i.InvoiceID, i.BillingDate, i.Amount
FROM Person p
INNER JOIN Patient pa ON p.PersonID = pa.PatientID
INNER JOIN Payment pay ON pa.PatientID = pay.PatientID
INNER JOIN Invoice_Payment ip ON pay.PaymentID = ip.PaymentID
INNER JOIN Invoice i ON ip.InvoiceID = i.InvoiceID
WHERE i.Amount > 0 AND i.BillingDate + 30 < DATE('now');

-- Find the patients who brought in the most revenue in the past year.
-- Query e
SELECT Person.fname, Person.Lname, SUM(Invoice.Amount)
FROM Patient, Person, Appointment, Invoice
WHERE Patient.PatientID = Person.PersonID
AND Appointment.PatientID = Patient.PatientID
AND Invoice.ApptID = Appointment.ApptID
AND Invoice.BillingDate >= '2022-01-01'
AND Invoice.BillingDate < '2023-01-01'
GROUP BY Patient.PatientID
ORDER BY SUM(Invoice.Amount) DESC;

-- Create a list of doctors who performed less than 5 procedures this year.
-- Query f
SELECT Employee.EmployeeID, Person.Fname, Person.Lname, COUNT(*) AS Total_Procedures
FROM Person, Employee, Licensure, Licensure_Procedure, Procedure
WHERE Employee.MedicalFlag = 1
AND Person.PersonID = Employee.EmployeeID
AND Licensure.MedicalID = Employee.EmployeeID
AND Licensure.LicenseNumber = Licensure_Procedure.LicenseNumber
AND Licensure_Procedure.ProcedureID = Procedure.ProcedureID
AND Procedure.ProcedureDate > '2023-01-01'
GROUP BY Employee.EmployeeID
HAVING Total_Procedures < 5;

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-- g: Find the highest paying procedures, procedure price, and the total number of
those
-- procedures performed. Sort your list with highest paying procedures showing at the
top of your list.
SELECT P.proceduretype, P.unitcharge, count(*) AS TotalNumberProcedurePerformed
FROM Procedure as P
GROUP by P.proceduretype
ORDER BY unitcharge DESC;

--h: Create a list of all payment types accepted, number of times each of them was
used, and total
--amount charged to that type of payment.
SELECT P.PaymentType as PaymentTypeAccepted, count(*) as NumberOfTimesUsed,
SUM(P.Amount) as TotalAmountCharged
FROM Payment as P
GROUP by P.Paymenttype;

--i: Find the name of the most popular insurance plan currently used by the patients
SELECT I.InsurancePlanType, count(*) as NumberOfTimesUsed
FROM InsurancePlan as I
GROUP by I.InsurancePlanType
ORDER BY NumberOfTimesUsed DESC
limit 1;
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