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-- Transaction that adds a payment for a specific pending invoice
BEGIN TRANSACTION NEW_PAYMENT;

SELECT COUNT(*) AS PendingPayments
FROM Invoice_Payment
WHERE Invoice_Payment.InvoiceID = 1001
AND Invoice_Payment.InvoiceStatus = 'pending';

IF PendingPayments > 0
BEGIN
INSERT OR ROLLBACK INTO Payment VALUES
(11, '2023-01-01', 50.00, 'Credit Card', 'USD', 1);

UPDATE Invoice_Payment
SET Invoice_Payment.InvoiceStatus = 'paid'
WHERE Invoice_Payment.InvoiceID = 1001;
END

COMMIT;
END TRANSACTION;

-- Transaction that adds a new medication for a specific patient, as long as the
patient is not allergic
BEGIN TRANSACTION NEW_MEDICATION

SELECT COUNT(*) AS PenicillinAllergies
FROM Allergy, Patient_Allergy
WHERE Allergy.Allergen = 'Penicillin'
AND Allergy.AllergyID = Patient_Allergy.AllergyID
AND Patient_Allergy.PatientID = 1;

IF PenicillinAllergies > 0
BEGIN
INSERT OR ROLLBACK INTO Medication VALUES
(11, 'Penicillin', 'Oral', 1);

INSERT OR ROLLBACK INTO Patient_Medication VALUES
(1, 11, '2022-03-09', '2022-04-09');
END

COMMIT;
END TRANSACTION;

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