

- a) Find the details of patient who are admitted within the period 03/03/08 to 25/ 03/08.
- b) Find the names of doctors who are treating Jalf\_zaon patients.
- c) write a procedure on ADMITTEDPATIENT table such as to calculate the bill of all patients currently admitted in the hospital. (bill = no \_ of \_ days \* 500)
- d) Write a trigger on Doctor table such that the specialization should be :- M.B.B.S./B.A.M.S/M.S.

```
--a)
SELECT *
FROM ADMITTEDPATIENT
WHERE Entry_date BETWEEN '2008-03-03' AND '2008-03-25';

--b)
SELECT DISTINCT D.Dname
FROM DOCTOR D
JOIN PATIENTMASTER P ON D.Did = P.Did
WHERE P.Padd LIKE '%Jalgaon%';

--c)
CREATE PROCEDURE Calculate_Current_Bills
AS
BEGIN
    SELECT
        A.Pcode,
        A.Entry_date,
        GETDATE() AS Today,
        DATEDIFF(DAY, A.Entry_date, GETDATE()) AS No_of_Days,
        DATEDIFF(DAY, A.Entry_date, GETDATE()) * 500 AS BillAmount
    FROM ADMITTEDPATIENT A
    WHERE A.Discharge_date IS NULL;
END;

EXEC Calculate_Current_Bills;

--d)
CREATE TRIGGER trg_ValidQualification
ON DOCTOR
INSTEAD OF INSERT
AS
BEGIN
    IF EXISTS (
        SELECT 1 FROM INSERTED
        WHERE Qualification NOT IN ('M.B.B.S.', 'B.A.M.S.', 'M.S.')
    )
    BEGIN
        RAISERROR ('Invalid qualification. Only M.B.B.S., B.A.M.S.,
or M.S. allowed.', 16, 1);
        ROLLBACK TRANSACTION;
    END
    ELSE
    BEGIN
        INSERT INTO DOCTOR (Did, Dname, Daddress, Qualification)
        SELECT Did, Dname, Daddress, Qualification FROM INSERTED;
    END
END;
```

- a) Find details of the patients who are treated by M.B.B.S. doctors.
- b) Find name of the doctor who are treating the male patients suffering from disease brain tumor & having age less than 40 years.
- c) write a procedure on ADMITTEDPATIENT table such as to calculate the bill of all patients who are discharged on 30-3-2008 . (bill no of days \* 500)
- d) write a cursor on DOCTOR table to fetch the first row & display the number of rows present in the table.

```
--a)
SELECT PM.*
FROM PATIENTMASTER PM
JOIN DOCTOR D ON PM.Did = D.Did
WHERE D.Qualification = 'M.B.B.S.';

--b)
SELECT DISTINCT D.Dname
FROM DOCTOR D
JOIN PATIENTMASTER PM ON D.Did = PM.Did
JOIN ADMITTEDPATIENT AP ON PM.Pcode = AP.Pcode
WHERE PM.Gender = 'M'
      AND PM.Age < 40
      AND AP.Disease = 'Brain Tumor';

--c)
CREATE PROCEDURE Calculate_Discharge_Bill
AS
BEGIN
    SELECT
        Pcode,
        Entry_date,
        Discharge_date,
        DATEDIFF(DAY, Entry_date, Discharge_date) AS No_of_Days,
        DATEDIFF(DAY, Entry_date, Discharge_date) * 500 AS BillAmount
    FROM ADMITTEDPATIENT
    WHERE Discharge_date = '2008-03-30';
END;
EXEC Calculate_Discharge_Bill;

--d)
DECLARE @Did INT, @Dname VARCHAR(50), @Daddress VARCHAR(100),
@Qualification VARCHAR(20);
DECLARE @RowCount INT;
-- Declare the cursor
DECLARE doctor_cursor CURSOR FOR
SELECT Did, Dname, Daddress, Qualification FROM DOCTOR;
-- Open and fetch the first row
OPEN doctor_cursor;
FETCH NEXT FROM doctor_cursor INTO @Did, @Dname, @Daddress,
@Qualification;
-- Display first row
PRINT 'First Doctor Record: ';
PRINT 'Did: ' + CAST(@Did AS VARCHAR) + ', Name: ' + @Dname + ', Address: '
+ @Daddress + ', Qualification: ' + @Qualification;
-- Count total rows
SELECT @RowCount = COUNT(*) FROM DOCTOR;
PRINT 'Total Rows in DOCTOR Table: ' + CAST(@RowCount AS VARCHAR);
-- Close and deallocate
CLOSE doctor_cursor; DEALLOCATE doctor_cursor;
```

