```sql
CREATE DATABASE HOSPITALFILE

USE HOSPITALFILE


CREATE TABLE DOCTORS(

DOCTOR_ID VARCHAR(5)NOT NULL PRIMARY KEY,

DOCTOR_SURNAME VARCHAR(40) NOT NULL)


CREATE TABLE PATIENTS(

PATIENT_ID VARCHAR(5) NOT NULL PRIMARY KEY,

PATIENT_NAME  VARCHAR(20) NOT NULL,

PATIENT_SURNAME VARCHAR(20) NOT NULL,

DATE_OF_BIRTH SMALLDATETIME NOT NULL)


CREATE TABLE TEST_RESULTS(

DOCTOR_ID VARCHAR(5) NOT NULL FOREIGN KEY REFERENCES DOCTORS(DOCTOR_ID),

PATIENT_ID VARCHAR(5) NOT NULL FOREIGN KEY REFERENCES PATIENTS(PATIENT_ID),

TEST_DATE SMALLDATETIME NOT NULL,

TEST_RESULT FLOAT NOT NULL

PRIMARY KEY (DOCTOR_ID, PATIENT_ID, TEST_DATE))


INSERT INTO DOCTORS VALUES

('DR001','Coetzee'),

('DR002','Hasim'),

('DR003','Mbeku'),

('DR004','Phillips')
```

```sql
INSERT INTO PATIENTS VALUES

('PT001','Dominique','Woolridge','1962-04-19'),

('PT002','Nico','Baird','1951-11-19'),

('PT003','Derek','Moore', '1995-06-24'),

('PT004','Neo','Petlele','1947-12-29'),

('PT005','Andrew','Crouch','1972-01-30')


INSERT INTO TEST_RESULTS VALUES

('DR002','PT001','2021-02-05',7.8),

('DR001','PT004','2021-01-14',11.1),

('DR002','PT001','2021-03-15',8.9),

('DR001','PT004','2021-02-28',11.7),

('DR004','PT005','2021-02-13',5.6),

('DR002','PT002','2021-03-30',7.8),

('DR004','PT002','2021-05-03',6.4)

SELECT * FROM PATIENTS

SELECT * FROM DOCTORS

SELECT * FROM TEST_RESULTS

--CREATE A VIEW NAME NORMAL RESULTS CONTAINING THE PATIENT NAME,SURNAME,DOC NAME,TES

--Q1.


GO

CREATE VIEW NormalResults

AS
```

```sql
SELECT
PATIENT_NAME,PATIENT_SURNAME,DOCTOR_SURNAME,TEST_DATE ,TEST_RESULT

FROM PATIENTS,DOCTORS,TEST_RESULTS

WHERE PATIENTS.PATIENT_ID = TEST_RESULTS.PATIENT_ID AND
DOCTORS.DOCTOR_ID=TEST_RESULTS.DOCTOR_ID AND TEST_RESULTS.TEST_RESULT <
7.8


SELECT * FROM NormalResults;



--1.2

USE HOSPITALFILE

GO

CREATE PROC PatientRecord

AS

SELECT doctors.DOCTOR_ID, TEST_DATE ,TEST_RESULT

FROM DOCTORS

LEFT JOIN TEST_RESULTS

on DOCTORS.DOCTOR_ID = TEST_RESULTS.DOCTOR_ID

WHERE TEST_RESULTS.PATIENT_ID ='PT001'


EXEC PatientRecord;


DROP proc PatientRecord;



--1.3
```

```sql
SELECT DISTINCT DOCTORS.DOCTOR_ID, DOCTORS.DOCTOR_SURNAME,

CASE

WHEN TEST_RESULTS.TEST_RESULT IS NULL

THEN 'PATIENTS REFFERED'

ELSE 'NO PATIENTS REFFERED'

END AS REFFERALS

FROM DOCTORS

LEFT JOIN TEST_RESULTS ON DOCTORS.DOCTOR_ID = TEST_RESULTS.DOCTOR_ID

GROUP BY DOCTORS.DOCTOR_ID, DOCTOR_SURNAME, TEST_RESULT
```