Hospital Management Query

1).Show information of Hospital like name ,address,phone etc.,
ANS: select * from Hasvi_Hospital

2)Show all Patients Information like Patient id,name,Dieases,gender,address
Ans: select * from Patient

3) Show all Doctors information like name ,department ,gender,address,speciality,salary.

ANS: select * from Doctor d join Department de on d.Dept_id=de.Dept_id

4) Show all Nurse information like name ,department ,gender,address,speciality,salary.

ANS: select * from Nurse n join Department d on n.Dept_id=d.Dept_id

5)Show all Staff information like name ,department ,gender,address,speciality,salary.

ANS: select * from Staff s join Department d on s.Dept_id=d.Dept_id

6) Show all appointments of Patient.

ANS: select * From Appointment

7) Show all appointment of '19-02-2024'

ANS: select * From Appointment where Appoint_Date='2024-02-23'

8) Show all orthopedic Doctor name & specialization.
ANS: select Doctor_name,Specialization from Doctor where Qualification like 'MS %'

9) Show today how much patient visited & consultation charges
ANS: select count(*) AS 'Number of Patient Visited', sum(Consultation_Charges) AS 'Total Consulatation Charge' from OPD where   OPD_Date=CAST(GETDATE() as date)

10) Show all information of Rooms.
ANS: select * from Room

11) Show all empty rooms
ANS: select * from Room where Room_Status='Available'

12) Find second Highest Salary of Doctors.
Ans: select   max(Salary) from Doctor where Salary< (select max(Salary) from Doctor)

13) Show the Table Structure of Patient Admission

ANS: sp_help Patient_Admission

14) Find Last 7 days Discharge Patient.
ANS: select * from Patient_Discharge where Discharge_Date between GETDATE()-7 and GETDATE() order by Discharge_Date desc

15) Delete the Patient information where Patient id is in 1 to 20
ANS: Delete from Patient where Patient_id BETWEEN 1 AND 20

16) Show all X-Rays of last 3 days.
ANS: select * from X_Ray_Test where X_Ray_Date_Time BETWEEN GETDATE()-3 AND GETDATE()

17) Find the Invoice whre Patient name is Fatema
ANS: select * from Invoice where Patient_name like 'Fatema%'

18)How many Patient done Cash payment.
ANS: select count(*) AS Cash_Payment from Invoice where Payment_Type ='Cash'

19) How much patients done UPI transaction.
ANS: select SUM(Total_Payment) AS UPI_Payment from Invoice where Payment_Type ='UPI Transfer'

20) Show total payment by payment type
ANS: Create Procedure Total_Payment_Invoice @dt Date
as
Select SUM(Total_Payment) AS 'Total Payment' ,Payment_Type from Invoice
where Invoice_Date=@dt group by Payment_Type
GO

EXEC Total_Payment_Invoice '2024-01-21'

OR
Select SUM(Total_Payment) AS 'Total Payment' ,Payment_Type from Invoice
where Invoice_Date=CAST(GETDATE() as date) group by Payment_Type

21)Show all information about Supplier
ANS: select * from Supplier

22)Show all category
ANS: select * from Category

23)Show all Supplier name & Category name
ANS: select Company_name,Contact_name,Category_name from Supplier s join Category c
on s.Category_id=c.Category_id

24) Show all Products of Hospital
ANS: select * from Product

25) Show all Nurses by Gender.
ANS: select Gender, count (*) AS Total from Nurse group by Gender

26) Show Category id,name & supplier id.
ANS: select c.Category_id,c.Category_name,s.Supplier_Id from Category c Join Supplier s on c.Category_id=s.Category_id

27) Show Product name by category & Supplier.
ANS: select Category_name,Product_name,Company_name from
Category c join Product p on c.Category_id=p.Category_id
join Supplier s on c.Category_id=s.Category_id

28) Update Room Status as Not Available when Patient Admitted in particular room.

    ANS: create Trigger Room_Status_Notavl on

                Patient_Admmission for insert
        AS
                update Room set Room_Status='Not available' from Room
                r,Patient_Admmission p where p.Room_id=r.Room_id AND
                DATEPART(MINUTE, p.Room_Entry_Date)= DATEPART(MINUTE,GETDATE())

29) Update Room Status as Available when Patient Discharge.

    ANS: create Trigger room_status_avail on
                Patient_Discharge for insert
                as
                update Room set Room_Status='Available' from Room r,Patient_Discharge d
                where r.Room_id=d.Room_id AND DATEPART(MINUTE
                ,d.Room_Exit_Date)=DATEPART(MINUTE,GETDATE())

30) Count the number of unavailable rooms
ANS: select count(Room_id) as 'Not Available', Room_Category,Room_charges from Room
        where Room_Status='Not available' group by Room_Category,Room_charges order
            by
        Room_charges

31) Show all Patients by Gender & City.
ANS: select City,Gender,count(*) Patient_Count from Patient group by City,Gender
         order by City ASC

32) Find the Floor where maximum number of rooms are available.
ANS: select FLOOR,count(*) AS 'Available Rooms' from Room
        Where Room_Status='Available' group by FLOOR having COUNT(*)=
        (Select MAX(zz) AS highest_total from (select FLOOR,COUNT(*) AS zz from Room
        where Room_Status='Available' group by FLOOR) AS r);

33) Patient name,Doctor name Disease as Treatment,Room number,Admission
date,Discharge Date fetch all this records
ANS: select p.Patient_name,d.Doctor_name,p.disease
        as'Treatment',r.Room_Number,convert(varchar(15),a.Admission_Date,105)
        Admission_Date,convert(varchar(15),dd.Discharge_Date,105) Discharge_Date
        from   Patient_Admmission a
        join Patient p on a.Patient_id=p.Patient_id
        join Doctor d on a.Doctor_id=d.Doctor_id
        join Patient_Discharge dd on a.Patient_id=dd.Patient_id
        join Room r on a.Room_id=r.Room_id

34) How many Staff types are there
ANS: Select count(*) Total_Staff,Designation from Staff group by Designation

35) Find the salary department wise.
ANS: select COALESCE(Dept_name,'Total')AS Dept_name ,
    SUM(Salary) AS 'Total_Salary' from Department d
    join Payroll p on d.Dept_id=p.Dept_id group by Dept_name WITH ROLLUP

36) Find Number of days Patient admitted in hospital.
ANS: select DATEDIFF(DAY,a.Admission_Date,d.Discharge_Date) AS 'No Of Days Admitted'
from Patient_Admmission a join Patient_Discharge d on a.Patient_id=d.Patient_id

37) Find Total Disease.
ANS: select COUNT(disease)'Total',COALESCE(disease,'Disease') AS 'Disease' from Patient
Group by ROLLUP (disease) order by COUNT(disease) desc

38) Find Disease by Gender
ANS: select COUNT(disease)'Total',COALESCE(disease,'Disease') AS
'Disease',COALESCE(Gender,'Total') AS 'Gender' from Patient Group by ROLLUP
(disease,Gender) order by COUNT(disease) desc

39) Find Disease by Gender
ANS: select Gender,disease,
        Case
        WHEN Age Between 0 AND 2 THEN 'Baby'
        WHEN Age Between 3 AND 10 THEN 'Children'
        WHEN Age Between 11 AND 30 THEN 'Young'
        WHEN Age Between 31 AND 50 THEN 'Middle Age'
        WHEN Age>50 THEN 'Old Age'
        END AS Age

        From Patient order by Age Desc

40) How much patients are coming from which city?
ANS: select COUNT(City)AS 'No Of Patients',City from Patient group by City order by
Count(City) desc