**Q-1. SQL query fetches “EFName” from Employee table using the alias name as <EMPLOYEE\_NAME>.**

Select EFName AS EMPLOYEE \_NAME from Employee;

**Q-2. SQL query fetches “ELName” from Employee table in upper case.**

Select upper (ELName) from Employee;

**Q-3. SQL query fetches unique values of Dignoses from Patient table.**

Select distinct Dignoses from Patient;

**Q-4. SQL query finds the first three characters of  PEmail from Patient table.**

Select substring(PEmail,1,3) from Patient;

**Q-5. SQL query prints the Field and SciDegree from Doctor table into a single column CAREER\_INFO. A space char should separate them.**

Select CONCAT(Field, ' ', SciDegree) AS ' CAREER\_INFO ' from Doctor;

**Q-6. SQL query finds all Patient details from the Patient table order by PFName Ascending and PPAge Descending.**

Select \* from Patient order by PFName asc, PPAge desc;

**Q-7. SQL query finds details for Patients with the first name as “Ahmed” or “Mona” from Patient table.**

Select \* from Patient where PFName in (' Ibrahim ','Shebl');

**Q-8. SQL query finds details of Employess excluding first names, “Ali” and “Sara” from Worker table.**

Select \* from Employee where EFName not in ('Ali','Salah');

**Q-9. SQL query finds details of Department with DName as “Admin”.**

Select \* from Department where DName like 'Admin%';

**Q-10. SQL query finds details of the Patients whose PFName contains ‘a’.**

Select \* from Patient where PFName like '%a%';

**Q-11. SQL query finds details of the Employees whose EFName ends with ‘h’ and contains six alphabets.**

Select \* from Employee where EFName like '\_\_\_\_h';

**Q-12. SQL query finds details of the Employees whose Salary lies between 4000 and 20000.**

Select \* from Employee where Salary between 4000 and 20000;

**Q-13. SQL query finds details of the Employees who have been hired in Feb’2019.**

Select \* from Employee where year(Hired) = 2019 and month(Hired) = 2;

**Q-14. SQL query finds the count of Rooms existing in the third floor.**

SELECT COUNT(RoomNO) FROM Room WHERE RFloor = 6 ;

**Q-15. SQL query to finds the number of Clinics whose LandLine number starts with 2.**

SELECT count(CID) FROM Clinic WHERE CAST( CLandLine as nvarchar(50) ) LIKE '2%'

**Q-16. SQL query finds Last Names and Fields of the Doctors who run specializations and have more than 5 years of experience.**

SELECT ELName, Field

FROM Doctor, Specialization

Where ESSN = SpMAnager AND YearsOfExp > 5 ;

**Q-17. SQL query shows the ELName and salary of the Employees with the second highest salary from a table.**

SELECT ELName , Salary FROM Employee

WHERE Salary in (SELECT max(Salary) from Employee where Salary not in (SELECT max(Salary) from Employee) );

**Q-18. SQL query shows all departments along with the number of people in there in descending order.**

SELECT DName As 'Name' , QuOfEmps as 'Number of Workers'

FROM Department ORDER BY QuOfEmps desc;

**Q-19. SQL query finds the departments that have less than ten people in it.**

SELECT DName As 'Name' , QuOfEmps as 'Number of Workers' FROM Department

WHERE QuOfEmps < 20

ORDER BY QuOfEmps decs;

**Q-20. SQL query to finds details of the youngest Patient.**

Select top 1 \* from Patient order by PPAge desc;

**Q-21. SQL query finds the names of Employees who earn the highest salary.**

SELECT EFName, ELName, Salary from Employee WHERE Salary =(SELECT max(Salary) from Employee);

**Q-22. SQL query gives a list of rooms, of Intensive Care Units that share the same nurse as the following: Room Number – ICU Number – Nurse Name .**

SELECT Room.RoomNo AS 'Room Number' ,

ICU.UnitNum AS 'ICU Number' ,

Nurse.ELName AS 'Nurse Name'

FROM ICU , Room , Nurse

WHERE Room.RNurse = ICU.INurse AND Nurse.ESSN = ICU.INurse ;

**Q-23. SQL query shows which patient is examined by which doctor.**

SELECT Patient.PLName , Doctor.ELName

FROM Patient , Doctor

WHERE Patient.Doctor = Doctor.ESSN ;

**Q-24. SQL query shows name of which Client is visiting which Patient.**

SELECT Client.CLName , Patient.PLName , Visit.Room

FROM Client , Patient , Visit

WHERE Visit.Room = Patient.RoomNum AND Visit.Client = Client.CSSN ;

**Q-25. SQL query shows Name of which Clinic is reserved by which client.**

SELECT Clinic.CName , Client.CLName

FROM Clinic , Reserve , Client

WHERE Reserve.Client = Client.CSSN AND Reserve.Clinic = Clinic.CID ;

**Q-26. SQL query shows Which nurse is supervised by each doctor.**

SELECT Nurse.ELName , Doctor.ELName FROM Nurse , Doctor

WHERE Nurse.Supervisor = Doctor.ESSN ;

**Q-27. SQL query shows which operation performed Doctor with experience less than 5 years.**

SELECT Doctor.ELName , Opration.OpName FROM Doctor , Opration

WHERE Doctor.Op = Opration.OpID AND Doctor.YearsOfExp < 5 ;

**Q-28. SQL query shows Names of all clinics Belongs to Heart specialization.**

SELECT CName FROM Clinic

WHERE Clinic.Specialization = ( SELECT SpID FROM Specialization WHERE SpName = 'Heart') ;

**Q-29. SQL query shows details of rooms have capacity more than 1 patient.**

SELECT \* FROM Room WHERE Capacity > 1 ;

**Q-30. SQL query shows Departments Managed by Employees older than 40 years old or have Salary more than 4000.**

SELECT DName FROM Department

WHERE Manager in ( SELECT ESSN FROM Employee WHERE EAge > 40 OR Salary > 4000 ) ;