SQL PROJECT: HIMS DATA ANALYSIS

1.Patient Visited to Hospital

SELECT V.VisitID,V.OPDNumber,V.VisitDate,PC.Name AS [Patient Category],P.FirstName+' '+P.LastName AS [Patient Name],

D.FirstName+' '+D.LastName AS [Doctor Name], U.Name AS [Unit Name], DP.Name

FROM Visit V

INNER JOIN PatientCategory PC

ON V.PatientCategoryID=PC.PatientCategoryID

INNER JOIN Patient P

ON V.PatientID=P.PatientID

INNER JOIN Doctor D

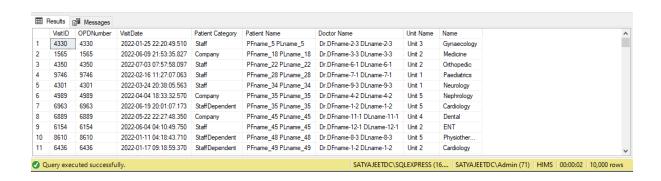
ON V.DoctorID=D.DoctorID

INNER JOIN Unit U

ON V.UnitID=U.UnitID

INNER JOIN Department DP

ON D.DepartmentID=DP.DepartmentID;



2. Patient Admitted in Hospital

SELECT A.AdmissionDate, A.IPDNumber,

PC.Name AS PatientCategory, P.FirstName+' '+P.LastName As PatientName, D.FirstName+' '+D.LastName AS DoctorName,

U.Name As UnitName, DS. Discharge Date

FROM Admission A

INNER JOIN PatientCategory PC

ON A.PatientCategoryID=PC.PatientCategoryID

INNER JOIN Patient P

ON A.PatientId=P.PatientID

INNER JOIN Doctor D

ON A.DoctorID=D.DoctorID

INNER JOIN Unit U

ON A.UnitId=u.UnitID

INNER JOIN Discharge DS

ON A.AdmissionId=DS.AdmissionId

A	lmission Date	IPDNumber	PatientCategory	Patient Name	DoctorName	UnitName	Discharge Date	
1 2	022-03-06 08:38:03.293	1	StaffDependent	PFname_23947 PLname_23947	Dr.DFname-7-2 DLname-7-2	Unit 3	2022-03-14 08:38:03.293	
2 2	022-08-08 18:41:03.250	2	StaffDependent	PFname_28030 PLname_28030	Dr.DFname-3-2 DLname-3-2	Unit 1	2022-08-16 18:41:03.250	
3 2	022-01-20 16:57:38.747	3	Company	PFname_41324 PLname_41324	Dr.DFname-4-3 DLname-4-3	Unit 3	2022-01-28 16:57:38.747	
4 2	022-03-15 05:20:20.450	4	Staff	PFname_40439 PLname_40439	Dr.DFname-8-2 DLname-8-2	Unit 2	2022-03-23 05:20:20.450	
5 2	022-06-21 03:20:56.950	5	Self	PFname_32325 PLname_32325	Dr.DFname-5-3 DLname-5-3	Unit 1	2022-06-29 03:20:56.950	
6 2	022-07-08 20:10:30.467	6	Staff	PFname_1254 PLname_1254	Dr.DFname-9-2 DLname-9-2	Unit 5	2022-07-16 20:10:30.467	
7 2	022-07-28 05:32:27.943	7	Self	PFname_29531 PLname_29531	Dr.DFname-1-1 DLname-1-1	Unit 5	2022-08-05 05:32:27.943	
8 2	022-04-15 23:57:56.843	8	StaffDependent	PFname_13751 PLname_13751	Dr.DFname-6-2 DLname-6-2	Unit 5	2022-04-23 23:57:56.843	
9 2	022-07-28 07:00:42.990	9	StaffDependent	PFname_8055 PLname_8055	Dr.DFname-12-2 DLname-12-2	Unit 2	2022-08-05 07:00:42.990	
10 2	022-02-07 04:12:28.123	10	Staff	PFname_22518 PLname_22518	Dr.DFname-11-2 DLname-11-2	Unit 3	2022-02-15 04:12:28.123	
11 2	022-01-29 13:44:57.527	11	Staff	PFname_17082 PLname_17082	Dr.DFname-7-1 DLname-7-1	Unit 5	2022-02-06 13:44:57.527	

3. Number of Patient visited to Medicine Department in May 2022

SELECT COUNT(1) AS Number of Patients FROM Visit V

INNER JOIN Doctor D

ON V.DoctorID=D.DoctorID

LEFT JOIN Department DP

ON D.DepartmentID=DP.DepartmentID

WHERE YEAR(VisitDate)=2022 AND MONTH(VisitDate)=05 AND DP.Name='Medicine';



4.List the Patient who visited as well as Admitted in Cardiology Dept for Year 2022

(A) First Method

SELECT V.PatientId AS [Patient ID of Visited Patient], A.PatientId AS [Patient ID of Admitted Patient] FROM Visit V

INNER JOIN Admission A

On V.PatientId=A.PatientId

INNER JOIN Doctor d

ON v.DoctorID=D.DoctorID

INNER JOIN Department dp

ON d.DepartmentID=dp.DepartmentID

INNER JOIN Doctor d1

ON A.DoctorID=d1.DoctorID

INNER JOIN Department dp1

ON d1.DepartmentID=dp1.DepartmentID

where YEAR(VisitDate)=2022

AND dp.Name='Cardiology' AND

Year(AdmissionDate)=2022

AND dp1.Name='Cardiology';



(B)

SELECT PatientId FROM Visit V

INNER JOIN Doctor d

ON v.DoctorID=D.DoctorID

INNER JOIN Department dp

ON d.DepartmentID=dp.DepartmentID

WHERE Year(VisitDate)=2022

AND dp.Name='Cardiology'

INTERSECT

Select PatientId

from Admission A

INNER JOIN Doctor d

ON A.DoctorID=D.DoctorID

INNER JOIN Department dp

ON d.DepartmentID=dp.DepartmentID

WHERE Year(AdmissionDate)=2022

AND dp.Name='Cardiology';



5.Year-wise & Department-wise visited Patient

SELECT YEAR(VisitDate) As Year_,dp.Name AS Department,

COUNT(PatientId) As [Patient Count] from Visit V

INNER JOIN Doctor d ON v.DoctorID=D.DoctorID

INNER JOIN Department dp ON d.DepartmentID=dp.DepartmentID

WHERE YEAR(VisitDate)=2022

GROUP BY YEAR(VisitDate), dp. Name

