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**INF3710 –Bases de données**

**Automne 2023**

**TP No. 5**

**Groupe 2**

**2118576 – Hamitouche, Taha-Chahine**

**2141829 – Guyon, Elouan**

**Soumis à : Chazbek, Rachad**

**02 décembre 2023**

1. **Présentez les dépendances fonctionnelles possibles et valides de toutes les relations mentionnées ci-dessus.**
   1. SELECT specialite

FROM Medecins

WHERE idMedecin = 3;

* 1. SELECT prenom, nom

FROM Medecins

WHERE anneesExperience > 10;

* 1. SELECT COUNT(\*)

FROM Examens;

* 1. A
  2. SELECT prenom, nom, TIMESTAMPDIFF(YEAR, dateDeNaissance, CURDATE()) AS age

FROM Patients

ORDER BY nom DESC, prenom DESC;

* 1. SELECT AVG(cout)

FROM Examens;

* 1. SELEC Médecins.prenom, Médecins.nom, COUNT(\*)

FROM Medecins

JOIN Rendezvous ON Medecins.idMedecin = Rendezvous.idMedecin

WHERE dateRendezVous >= ‘2023-09-21’

GROUP BY Medecins.idMedecin;

* 1. SELECT Pations.prenom, Patients.nom, Patients.numerodeTelephone

FROM Patient

JOIN Rendezvous on Patients.idPatient = Rendezvous.idPatient

WHERE dateRendezVous BETWEEN CURDATE() AND CURDATE() + INTERVAL 7 DAY;

* 1. SELECT Patients.prenom, Patients.nom, SUM(Examens.cout) AS TotalCout

FROM Patients

JOIN PatientsExamens ON Patients.idPatient = PatientExamens.idPatient

JOIN Examens ON PatientExamens.idExamen = Examens.idExamen

JOIN Services ON Examens.idService = Services.idService

WHERE Patients.idPatient = 4

AND Services.nomService LIKE ‘0%’

GROUP BY Patients.idPatient;

* 1. SELECT Patients.prenom, Patients.nom

FROM Patients

JOIN Rendezvous ON Patients.idPatient = Rendezvous.idPatient

WHERE Médecins.anneesExperience = (SELECT MAX(anneesExperience) FROM Medecins);

* 1. SELECT Patients.prenom, Patients.nom

FROM Patients

JOIN PatiensExamens ON Patients.idPatient = PatientsExamens.idPatient

JOIN Examens ON PatientsExamens.idExamen = Examens.idExamen

WHERE Examens.cout > 200

GROUP BY Patients.idPatient

HAVING SUM(Examens.cout) > 2000;

* 1. A
  2. SELECT Medecins.prenom, Medecins.nom

FROM Medecin

LEFT JOIN Rendezvous ON Medecins.idMedecin = Rendezvous.idMedecin

WHERE Rendezvous.idRendezvous IS NULL

* 1. SELECT Patients.prenom, Patients.nom

FROM Patients

JOIN Rendezvous ON Patients.idPatient = Rendezvous.idPatient

JOIN Medecins ON Rendezvous.idMedecin = Medecins.idMedecin

GROUP BY Patients.idPatient

HAVING COUNT(DISTINCT Medecins.idService) = (SELECT COUNT(\*) FROM Services);

* 1. CREATE VIEW V\_TotalExamens AS

SELECT Patients.nom AS V\_nom, Patients.prenom AS V\_prenom, SUM(Examens.cout) AS V\_tot

FROM Patients

JOIN PatientExamens ON Patient.idPatient = PatientExamens.idPatient

JOIN Examens ON Patients.idPatient = Examens.idExamen

GROUP BY Patients.idPatient

HAVING V\_TOT > 500

AND SUBSTRING(Patients.adresse, LENGTH(Patients.adresse) – 2, 1) IN (‘e’, ‘o’)

ORDER BY V\_nom ASC, V\_tot DESC;