Indus Hospital Database SQL Analysis Project
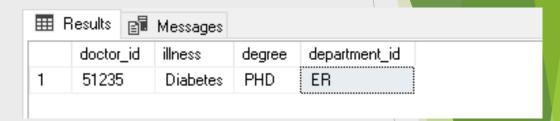
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Q1. find all doctors who have treated a patient of "diabetes"

Input :

select d.doctor_id , dg.illness , d.degree , d.department_id

from doctor d

join diagnosis dg

 on d.doctor_id = dg.doctor_id where illness = 'diabetes'

Output

	doctor_id	illness	degree	department_id
1	51235	Diabetes	PHD	ER

Q2: list all the details of patients who have been subscribed 'C312'

Input :

select *

from patient p join

MEDICATION_PRESCRIBED ps

on p.patient_id = ps.patient_id
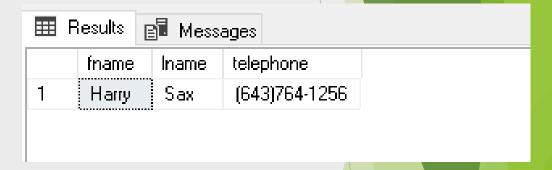
where medication_id = **'C312'**

Output :

Results | Messages

	Patient_ID	fname	lname	Address	telephone	Gender	Age	Blood_Type	Cafeteria_ID	Bill_ID	Prescription_ID	Medication_ID	Patient_ID
1	193258	Jenny	Tayla	651 Nowhre St	(642)176-7421	F	19	AB+	Dobson	1423	103	C312	193258

Q3. Retrieve all the names and phone numbers of all the patients who have been diagnosed 'Anemia'

Input :

select p.fname , p.lname , p.telephone

from patient p

join diagnosis d

on p.patient_id = d.patient_id

where illness = **'Anemia'**

Output :

	fname	lname	telephone
1	Harry	Sax	(643)764-1256

Q4. Find the **degree** and **IDs** of all the doctors who works in **'ER'** department

Input :
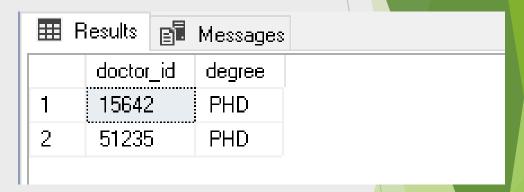
select do.doctor_id , do.degree

from doctor do

join department d

on do.department_id = d.department_id

where D.department_id = 'ER'

Output :

	doctor_id	degree
1	15642	PHD
2	51235	PHD

Q5 . Find the total salary expenditure for all workers

Input :

SELECT * FROM WORKER

select sum(salary) as total_salary_expenditure from worker

Output :

	total_salary_expenditure
1	1041000

Q6. List all cafeteria staff along with their job title and food type serve in their assigned cafeteria .

Input :

select cs.staff_id , s.job_title as job_title , c.food_type

from CAFETERIA_STAFF cs

join staff s on cs.staff_id = s.staff_id

join cafeteria c on cs.cafeteria_id = c.cafeteria_Id

Output :

	staff_id	job_title	food_type
1	12	Cafeteria Staff	Lunchables
2	1834	Cafeteria Staff	Mash Potatoes

Q7. Show details of patient along with their medications they are prescribed even if no medication has been prescribed

Input :

select * from patient p

left join MEDICATION_PRESCRIBED as mp

on p.patient_id = mp.patient_id

left join medication as m

on mp.medication_id = m.medication_id

Output :

	Patient_ID	fname	lname	Address	telephone	Gender	Age	Blood_Type	Cafeteria_ID	Bill_ID	Prescription_ID	Medication_ID	Patient_ID	Medication_ID	Doses	Expiration_Date
1	193258	Jenny	Tayla	651 Nowhre St	(642)176-7421	F	19	AB+	Dobson	1423	103	C312	193258	C312	12	2025-12-15
2	497598	Benjamin	Dover	63 Vancouver Way	(432)753-1274	M	72	B-	Wheeler	1744	104	D918	497598	D918	2	2024-07-04
3	589215	Mike	Lock	152 Main St	(135)753-2346	M	41	A+	Dobson	1537	101	A104	589215	A104	10	2026-05-12
4	589215	Mike	Lock	152 Main St	(135)753-2346	M	41	A+	Dobson	1537	105	E501	589215	E501	8	2025-08-29
5	975913	Harry	Sax	53 Chendogg Ave	(643)764-1256	M	21	O-	Campbell	1632	102	B205	975913	B205	5	2026-09-20

Q8 . Find average age of patients diagnosed by 'flu'

Input :

select avg(p.age) as Patients_Average_age

from patient as p

join diagnosis d on p.patient_id = d.patient_id

where d.illness = 'flu'

Output :

	Patients_Average_age
1	41