

Output:

TASK 1					
1. All patient names query					
patient_id	patient_name	age	department	doctor_id	admission_date
1	Amit Verma	45	Cardiology	1	2025-01-15
2	Riya Sharma	30	Neurology	2	2025-02-10
3	Kunal Patel	55	Orthopedics	3	2025-03-05
4	Sana Khan	40	Oncology	4	2025-03-12
5	Arjun Vankani	28	Cardiology	1	2025-04-01
6	Meera Joshi	35	Pediatrics	5	2025-04-15
7	Vikram Singh	60	Cardiology	1	2025-05-10
8	Priya Desai	25	Neurology	2	2025-05-20
9	Rohan Gupta	50	Oncology	4	2025-06-01
10	Sneha Nair	33	Orthopedics	3	2025-06-10
11	Aditya Shah	29	Cardiology	1	2025-06-18
12	Neha Kapoor	42	Pediatrics	5	2025-07-02
13	Manish Yadav	36	Neurology	2	2025-07-15
14	Alok Tiwari	48	Oncology	4	2025-08-01

15	Pooja Chauhan	39	Cardiology	1	2025-08-12
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| 2. Donations > 5000 |

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donation_id	patient_id	donation_date	amount
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3	3	2025-03-07	8000.00
4	4	2025-03-20	12000.00
7	7	2025-05-15	7000.00
10	10	2025-06-12	6000.00
14	15	2025-08-15	10000.00
17	7	2025-06-25	6000.00
19	15	2025-08-25	8000.00

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| 3. Admission date query |

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patient_id	patient_name	age	department	doctor_id	admission_date
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15	Pooja Chauhan	39	Cardiology	1	2025-08-12
14	Alok Tiwari	48	Oncology	4	2025-08-01
13	Manish Yadav	36	Neurology	2	2025-07-15

	12	Neha Kapoor		42	Pediatrics		5	2025-07-02	
	11	Aditya Shah		29	Cardiology		1	2025-06-18	
	10	Sneha Nair		33	Orthopedics		3	2025-06-10	
	9	Rohan Gupta		50	Oncology		4	2025-06-01	
	8	Priya Desai		25	Neurology		2	2025-05-20	
	7	Vikram Singh		60	Cardiology		1	2025-05-10	
	6	Meera Joshi		35	Pediatrics		5	2025-04-15	
	5	Arjun Vankani		28	Cardiology		1	2025-04-01	
	4	Sana Khan		40	Oncology		4	2025-03-12	
	3	Kunal Patel		55	Orthopedics		3	2025-03-05	
	2	Riya Sharma		30	Neurology		2	2025-02-10	
	1	Amit Verma		45	Cardiology		1	2025-01-15	

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| 4. Patients per department query |

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| department | num_patients |

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| Cardiology | 5 |

| Neurology | 3 |

| Orthopedics | 2 |

| Oncology | 3 |

| Pediatrics | 2 |

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| 5. Departments with >3 patients |
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| department | num_patients |
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```
| Cardiology |      5 |
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| TASK 2 |
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| patient_name | doctor_name | amount |
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```
| Amit Verma | Dr. Sharma | 5000.00 |
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```
| Amit Verma | Dr. Sharma | 3000.00 |
```

```
| Arjun Vankani | Dr. Sharma | 3000.00 |
```

```
| Vikram Singh | Dr. Sharma | 7000.00 |
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```
| Vikram Singh | Dr. Sharma | 6000.00 |
```

```
| Aditya Shah | Dr. Sharma | 2000.00 |
```

```
| Pooja Chauhan | Dr. Sharma | 10000.00 |
```

```
| Pooja Chauhan | Dr. Sharma | 8000.00 |
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```
| Riya Sharma | Dr. Mehta | 2000.00 |
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```
| Priya Desai | Dr. Mehta | 1500.00 |
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```
| Manish Yadav | Dr. Mehta | 4500.00 |
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```
| Kunal Patel | Dr. Patel | 8000.00 |
```

```
| Kunal Patel | Dr. Patel | 5000.00 |
```

Sneha Nair	Dr. Patel	6000.00	
Sana Khan	Dr. Khan	12000.00	
Rohan Gupta	Dr. Khan	4000.00	
Rohan Gupta	Dr. Khan	4000.00	
Meera Joshi	Dr. Iyer	2500.00	
Neha Kapoor	Dr. Iyer	3500.00	

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TASK 3	
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1. Average donation by month	
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donation_month	avg_donation	
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2025-01	5000.000000	
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2025-02	2500.000000	
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2025-03	10000.000000	
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2025-04	3500.000000	
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2025-05	4250.000000	
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2025-06	4500.000000	
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2025-07	4000.000000	
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2025-08	9000.000000	
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3. Total donations for each doctors patients	
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| doctor_name | total_donations |
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```
| Dr. Sharma |    44000.00 |
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| Dr. Mehta  |     8000.00 |
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```
| Dr. Patel  |    19000.00 |
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```
| Dr. Khan   |    20000.00 |
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| Dr. Iyer   |     6000.00 |
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| 4. Top 5 highest donating patients |
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```
| patient_name | total_donations |
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```
| Pooja Chauhan |    18000.00 |
```

```
| Vikram Singh  |    13000.00 |
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```
| Kunal Patel   |    13000.00 |
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```
| Sana Khan     |    12000.00 |
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```
| Amit Verma    |     8000.00 |
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| 5. Doctors with more than 2 patients |
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doctor_name	num_patients
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Dr. Sharma	5
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Dr. Khan	3
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Dr. Mehta	3
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Dr. Mehta	3
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Dr. Mehta	3
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Dr. Mehta	3
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Dr. Mehta	3
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Dr. Mehta	3
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6. Average age by department

Cardiology	40.2000
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Neurology	30.3333
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Orthopedics	44.0000
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Oncology	46.0000
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Pediatrics	38.5000
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Pediatrics	38.5000
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Pediatrics	38.5000
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Pediatrics	38.5000
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Pediatrics	38.5000
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Pediatrics	38.5000
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Pediatrics	38.5000
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Pediatrics	38.5000
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Pediatrics	38.5000
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7. Department with highest number of patients

Cardiology	5
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Cardiology	5
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Cardiology	5
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Cardiology	5
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Cardiology	5
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8. Monthly donations		
donation_month total_donations		
1	5000.00	
2	5000.00	
3	20000.00	
4	10500.00	
5	8500.00	
6	18000.00	
7	12000.00	
8	18000.00	
9. Patients who never made a donation		
patient_id patient_name		
14	Alok Tiwari	


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| 10. Doctors whose patients donated more than 10,000 |
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+-----+-----+-----+
| doctor_name | doctor_id | total_donations |
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| Dr. Sharma |    1 |    44000.00 |
| Dr. Patel  |    3 |    19000.00 |
| Dr. Khan   |    4 |    20000.00 |
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```