Sql task number 6

# Question number 1st

SELECT CONCAT(d.first\_mame ," ",d.last\_name) DoctorName,COUNT(a.patient\_id) NumOfPatient FROM doctors d INNER JOIN appointments a ON d.doctor\_id=a.doctor\_id GROUP BY a.doctor\_id

# Question number 2end

SELECT p.patient\_id,p.first\_mame PatientName,a.appointment\_id,d.doctor\_id,d.first\_mame DoctorName FROM patients p INNER JOIN appointments a ON p.patient\_id=a.patient\_id INNER JOIN doctors d on a.doctor\_id=d.doctor\_id

# Question number 3rd

SELECT de.department\_id,de.department\_name,COUNT(a.doctor\_id) NumOfAppointment FROM appointments a INNER JOIN doctors d ON a.doctor\_id=d.doctor\_id INNER JOIN departments de ON d.department\_id=de.department\_id GROUP BY d.department\_id

# Question number 4th

SELECT s.specialty\_id,s.specialty\_name MostPopularSpecialtyName ,COUNT(a.doctor\_id) NumOfAppointment FROM appointments a INNER JOIN doctors d ON a.doctor\_id=d.doctor\_id INNER JOIN specialties s ON s.specialty\_id=d.specialty\_id GROUP BY s.specialty\_id ORDER by NumOfAppointment DESC limit 1

# Question number 5th

SELECT SUM(p.payment\_amount) TotalPaymentAmt ,a.status from payments p INNER JOIN appointments a on p.appointment\_id=a.appointment\_id WHERE a.status="Completed"

# Question number 6th

SELECT a.doctor\_id,Concat(d.first\_mame," ", d.last\_name) DoctorName,COUNT(a.patient\_id) NumOfPatient FROM doctors d INNER JOIN appointments a ON d.doctor\_id=a.doctor\_id GROUP BY a.doctor\_id

# Question number 7th

SELECT p.patient\_id,CONCAT(p.first\_mame," ",p.last\_name),a.status FROM appointments a INNER JOIN patients p ON a.patient\_id=p.patient\_id WHERE a.status="Cancelled"

# Question number 8th

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SELECT status,COUNT(appointment\_id) TotalNumOfAppoinments FROM appointments GROUP BY status

# Question number 9th

SELECT ROUND(AVG(p.payment\_amount),2) AvgPaymentAmtOnStatus , status FROM appointments a INNER JOIN payments p ON a.appointment\_id=p.appointment\_id WHERE status="Completed"

# Question number 10th

SELECT a.doctor\_id,CONCAT(d.first\_mame," ",d.last\_name) DoctorName ,COUNT(patient\_id) NumOfAppointments FROM appointments a INNER JOIN doctors d ON d.doctor\_id=a.doctor\_id GROUP BY a.doctor\_id ORDER BY COUNT(patient\_id) DESC LIMIT 1;