

POPULATED TABLES AND TABLE DESCRIPTION

Insurance

	Field	Type	Null	Key	Default	Extra
►	insurance_id	int	NO	PRI	NULL	
	company_name	varchar(50)	NO	MUL	NULL	
	start_date	date	NO		NULL	
	end_date	date	NO		NULL	
	co_insurance	decimal(5,2)	YES		NULL	

	insurance_id	company_name	start_date	end_date	co_insurance
►	101	National Insurance Co.Ltd	2011-03-12	2020-04-10	55.00
	102	Go digital General Insurance	2011-09-12	2023-04-10	40.00
	103	HDFC ERGO General insurance	2010-06-01	2024-05-07	60.00
	104	HDFC ERGO General insurance	2010-06-01	2024-05-07	60.00
	105	National Insurance Co.Ltd	2008-03-09	2022-09-23	30.00
	106	National Insurance Co.Ltd	2008-03-09	2022-09-23	30.00
•	NULL	NULL	NULL	NULL	NULL

Patient1

	Field	Type	Null	Key	Default	Extra
►	patient_id	int	NO	PRI	NULL	
	polyclinic_name	varchar(20)	NO		NULL	
	patient_name	varchar(20)	NO	UNI	NULL	
	dob	date	NO		NULL	
	insurance_id	int	YES	MUL	NULL	
	sex	char(4)	NO		NULL	
	Problem_or_Disease	varchar(50)	NO		NULL	
	Dno	int	NO		NULL	
	doc_id	int	NO	MUL	NULL	
	registration_time	time	NO		NULL	
	registration_date	date	NO		NULL	

	patient_id	polyclinic_name	patient_name	dob	insurance_id	sex	Problem_or_Disease	Dno	doc_id	registration_time	registration_date
►	1	Dental Polyclinic	Mr.Smith	1967-03-25	101	M	Soft tissue Inflammation	1	100	17:00:00	2022-03-19
	2	Dental Polyclinic	Mr.Andrews	1978-02-04	102	M	Gum Disease	2	300	14:00:00	2022-03-20
	3	Dental Polyclinic	Mrs.Rodriguez	1987-07-28	103	F	Deep Decay	1	200	17:00:00	2022-03-21
	4	Dental Polyclinic	Mr.Holt	1983-08-21	104	M	Cavities	3	400	21:00:00	2022-03-19
	5	Dental Polyclinic	Ms.Ruby	1998-01-16	105	F	Missing Teeth	3	400	17:00:00	2022-03-20
	6	Dental Polyclinic	Ms.Franceska	2000-03-19	106	F	Mobile Teeth	3	500	18:00:00	2022-03-19
•	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Patient_Phone

	Field	Type	Null	Key	Default	Extra
►	patient_id	int	NO	MUL	NULL	
	Phone_number	decimal(10,0)	NO		NULL	

	patient_id	Phone_number
▶	1	9821000690
	1	8999452345
	2	9811223300
	2	9786577724
	3	9013211091
	4	9210747010
	5	9900887045
	5	9900889085
	6	9601887095

(Made a table for patient_phone as phone_ number is a multivalued attribute in patient1 table)

Visits

	Field	Type	Null	Key	Default	Extra
▶	patient_name	varchar(20)	NO	MUL	NULL	
	patient_id	int	NO	PRI	NULL	
	registration_time	time	NO		NULL	
	registration_date	date	NO		NULL	
	Final_Details	varchar(45)	NO			

	patient_name	patient_id	registration_time	registration_date	Final_Details
▶	Mr.Smith	1	17:00:00	2022-03-19	REGISTRATION CAN BE DONE
	Mr.Andrews	2	14:00:00	2022-03-20	SORRY ! COME WITHIN THE SPECIFIED TIMINGS
	Mrs.Rodriguez	3	17:00:00	2022-03-21	REGISTRATION CAN BE DONE
	Mr.Holt	4	21:00:00	2022-03-19	SORRY ! COME WITHIN THE SPECIFIED TIMINGS
	Ms.Ruby	5	17:00:00	2022-03-20	SORRY ! WE ARE OPEN ONLY FROM MONDAY-S...
	Ms.Franceska	6	18:00:00	2022-03-19	REGISTRATION CAN BE DONE
•	NULL	NULL	NULL	NULL	NULL

This table is made with the help of table patient1(table made from a query) using 'create table as' statement. Depending upon the registration timings and this table informs us whether the patient can be given an appointment or not and with the help of case function we display the final details.

Previous_Visits

	Field	Type	Null	Key	Default	Extra
▶	patient_id	int	NO	MUL	NULL	
	visits	date	NO		NULL	
	prev_treatment_taken_from_this_clinic	varchar(50)	NO		NULL	

	patient_id	visits	prev_treatment_taken_from_this_clinic
▶	1	2017-08-11	Root Canal
	1	2019-02-07	Root Canal
	2	2016-12-11	Gums
	2	2018-12-11	Gums
	3	2018-03-10	Cavities
	4	2018-03-23	Missing Teeth
	5	2017-10-25	Mobile Teeth

New_patient

	Field	Type	Null	Key	Default	Extra
▶	patient_id	int	NO	PRI	NULL	
	patient_name	varchar(20)	NO	MUL	NULL	
	insurance_id	int	YES	MUL	NULL	
	New_patient	varchar(50)	NO		_utf8mb4\WELCOME!YOUR FIRST CHECKUP IS...	DEFAULT_GENERATED
	discount_given	decimal(5,2)	YES		100	DEFAULT_GENERATED

	patient_id	patient_name	insurance_id	New_patient	discount_given
▶	6	Ms.Franceska	106	WELCOME!YOUR FIRST CHECKUP IS FREE	100.00
•	NULL	NULL	NULL	NULL	NULL

This table is made with the help of patient1 and previous visits (i.e table made from nested queries) using 'create table as' statement where the entries in the table patient1 and previous visit table are compared and the details of the patient whose patient_id is present in patient1 but not in previous_visit is stored in the table new_patient.

Regular_patients

	Field	Type	Null	Key	Default	Extra
▶	patient_id	int	NO	PRI	NULL	
	patient_name	varchar(20)	NO	MUL	NULL	
	insurance_id	int	YES	MUL	NULL	
	discount_given	decimal(5,2)	YES		10	DEFAULT_GENERATED

	patient_id	patient_name	insurance_id	discount_given
▶	1	Mr.Smith	101	10.00
	2	Mr.Andrews	102	10.00
•	NULL	NULL	NULL	NULL

This table is made with the help of patient1 and previous visits (i.e table made from nested queries) using 'create table as' statement where the table patient1 and previous visit table are compared and the details of the patient whose patient_id is present in previous_visits more than 2 times is stored in the table regular_patient.

Doctors

	Field	Type	Null	Key	Default	Extra
▶	doc_id	int	NO	PRI	NULL	
	salary_slipno	int	NO	UNI	NULL	
	doc_name	varchar(20)	NO		NULL	
	Dep_no	int	NO	MUL	NULL	
	Dep_name	varchar(20)	NO	MUL	NULL	

	doc_id	salary_slipno	doc_name	Dep_no	Dep_name
▶	100	100	Dr. Ray	1	Endodontist
	200	101	Dr. Bing	1	Endodontist
	300	102	Dr. Stromberg	2	Periodontist
	400	103	Dr. David	3	General Dentist
	500	104	Dr. James	3	General Dentist
•	NULL	NULL	NULL	NULL	NULL

DOCTOR_PHONE

	Field	Type	Null	Key	Default	Extra
▶	doc_id	int	NO	MUL	NULL	
	Phone_number	decimal(10,0)	NO		NULL	

	doc_id	Phone_number
▶	100	9821054690
	100	8976452345
	200	9811223344
	200	9786574624
	300	9143211091
	400	9213447010
	500	9900887755

(Made a table for doctor_phone as phone_number is a multivalued attribute in doctor_info table)

Salary

	Field	Type	Null	Key	Default	Extra
▶	salary_slipno	int	NO	PRI	NULL	
	salary	decimal(10,0)	NO		NULL	
	Number_of_years_working	int	NO		NULL	

	salary_slipno	salary	Number_of_years_working
▶	100	500000	4
	101	250200	1
	102	512200	5
	103	700000	8
	104	656666	6
•	NULL	NULL	NULL

Department

	Field	Type	Null	Key	Default	Extra
▶	dep_no	int	NO	PRI	NULL	
	dep_name	varchar(20)	NO	UNI	NULL	

	dep_no	dep_name
▶	1	Endodontist
	3	General Dentist
	2	Periodontist
*	NULL	NULL

Endodontist

	Field	Type	Null	Key	Default	Extra
▶	doc_id	int	NO	MUL	NULL	
	root_canal	varchar(100)	NO		NULL	
	charges	int	NO		NULL	

	doc_id	root_canal	charges
▶	100	Soft tissue inflammation	4000
	200	Deep decay	7000

Periodontist

	Field	Type	Null	Key	Default	Extra
▶	doc_id	int	NO	MUL	NULL	
	gums	varchar(100)	NO		NULL	
	price	int	NO		NULL	

	doc_id	gums	price
▶	300	Gum Disease	6000

Gen_dentist

	Field	Type	Null	Key	Default	Extra
▶	doc_id	int	NO	MUL	NULL	
	cavities_OR_missing_teeth_OR_mobile_teeth	varchar(20)	NO		NULL	
	PRICE	int	NO		NULL	

	doc_id	cavities_OR_missing_teeth_OR_mobile_teeth	PRICE
▶	400	Cavities	2000
	400	Missing Teeth	2500
	400	Mobile Teeth	2700
	500	Cavities	3000
	500	Missing Teeth	3500
	500	Mobile Teeth	3700

TOTAL_BILL

	Field	Type	Null	Key	Default	Extra
▶	Patient_id	int	NO	PRI	NULL	
	insurance_id	int	YES	MUL	NULL	
	patient_name	varchar(20)	NO	MUL	NULL	
	charges	int	YES		NULL	
	discount_given	int	NO		NULL	
	charge_after_discount	int	NO		NULL	
	Money_Insurance	int	NO		NULL	
	Patient_Pay	int	NO		NULL	
	bill_no	int	NO	PRI	NULL	auto_increment
	cashier_id	int	NO	MUL	NULL	

	Patient_id	insurance_id	patient_name	charges	discount_given	charge_after_discount	Money_Insurance	Patient_Pay	bill_no	cashier_id
▶	1	101	Mr.Smith	4000	400	3600	1980	1620	1	302
	2	102	Mr.Andrews	6000	600	5400	2160	3240	2	301
	3	103	Mrs.Rodriguez	7000	0	7000	4200	2800	3	302
	4	104	Mr.Holt	2000	0	2000	1200	800	4	301
	5	105	Ms.Ruby	2500	0	2500	750	1750	5	302
	6	106	Ms.Francesca	3700	3700	0	0	0	6	301
•	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Here we made a table total_bill with the help of patient1, endodontist, pedodontist and gen_dentist table (table made from query) with the help of 'create table as' statement and further with the help of case function we made a column named charges and filled that particular column on the basis of patient_id and the treatment taken, this is how we found out how much the total charge of that particular patient was and next we updated the column discount_given, money_insurance, patient_pay with the help of 'update inner join' statement

(For discount_given- **update** total_bill e **INNER JOIN** regular_patients r **ON** e.patient_id = r.patient_id **SET** e.discount_given = (charges * r.discount_given/100.00);

update total_bill e **INNER JOIN** new_patients n **ON** e.patient_id = n.patient_id **SET** e.discount_given = (charges * n.discount_given/100.00);)

(For money_insurance- **update** total_bill e **inner join** insurance i **on** e.insurance_id=i.insurance_id **SET** Money_insurance= ((charge_after_discount) * co_insurance/100.00);)

(FOR patient_pay- **update** total_bill e **inner join** insurance i **on** e.insurance_id=i.insurance_id **set** patient_pay=(charge_after_discount)-money_insurance)

Dependents

	Field	Type	Null	Key	Default	Extra
▶	depen_name	varchar(100)	NO	PRI	NULL	
	phone_no	decimal(10,0)	NO		NULL	
	patient_id	int	NO	PRI	NULL	

	depen_name	phone_no	patient_id
▶	Roger	9165625400	1
	Fin	9165623880	2
	Thomas	9789879765	3
	Alfie	9914323523	4
	Arthur	9678229119	5
*	NULL	NULL	NULL

Medical History

	Field	Type	Null	Key	Default	Extra
▶	patient_id	int	NO	PRI	NULL	
	past_treatment	varchar(50)	NO	PRI	NULL	
	allergies	varchar(50)	YES		NULL	
	pain_tooth	varchar(50)	YES		NULL	
	heart_probs	varchar(50)	YES		NULL	
	other_illness	varchar(50)	YES		NULL	

	patient_id	past_treatment	allergies	pain_tooth	heart_probs	other_illness
▶	1	Root Canal	Penicillin	NULL	High BP	Diabetes
	2	Root Canal	NULL	Upper Left Tooth	NULL	Rhinitis
	3	Loose Teeth	Pollen	NULL	High BP	Arthritis
	4	Decay	Pollen	Lower Left Side	NULL	NULL
	5	Gingivitis	Lignocaine	Lower Right Side	High BP	Cardiac Problem
*	NULL	NULL	NULL	NULL	NULL	NULL

CASHIER

	Field	Type	Null	Key	Default	Extra
▶	Name	varchar(20)	NO		NULL	
	cashier_id	int	NO	PRI	NULL	
	salary	int	NO		NULL	

	Name	cashier_id	salary
▶	Amit	301	3000
	Rohit	302	400
*	NULL	NULL	NULL

CASHIER PHONE

	Field	Type	Null	Key	Default	Extra
▶	cashier_id	int	NO	MUL	NULL	
	Phone_number	decimal(10,0)	NO		NULL	

	cashier_id	Phone_number
▶	301	9999765642
	301	6542758545
	302	8645324455
	302	7689000678