

# Database tables

Order	Name	Type	Summery

## session\_token

Stores the session token for when a user has logged into something.

Order	Name	Type	Summery
1	session_token_id	bigint(20)	Primary key
2	user_id	bigint(20)	FK. From User table. <a href="#">Click here</a>
3	session_token_hash	varchar(255)	The hash of the token. Hashed using ARGON2.
4	session_type	tinyint(4)	Enum: session_token_type The type of token this is.
			Undefined: 0 - Should not be used in the database.
			User Portal: 1 - The user has logged in with username and password.
			Mobile Patient Web: 2 - The patient has logged in with username and password. (For future)
			DCMSHQ: 3 - This token is for a DCMS HQ service that has authenticated to us.
5	device_name	varchar(255)	The device name of the user has logged in.
6	expires_at	datetime	When the token expires.
7	created_at	datetime	The user log in time.
8	last_seen_at	datetime	The last time user accessed database.
9	revoked_at	datetime	The user log out time.

## user

Log in portal to the database.

Order	Name	Type	Summery
1	user_id	bigint(20)	Primary key.
2	username	varchar(255)	Username or email. UNIQUE.
3	display_name	varchar(255)	There display name. Can be changed .
4	password_hash	varchar(255)	The hash of the token. Hashed using ARGON2.
6	roles	tinyint(4)	0: Patient.
			1: Admin.
			2: Manager.
			3: Doctor.
			4: Receptionist.
6	created_at	datetime	Created time of the user account

## patient

Patient basic information table. Patient can change the table information.

Order	Name	Type	Summery
1	patient_id	bigint(20)	Primary key
2	user_id	bigint(20)	FK from user table. NULLABLE. <a href="#">Click here</a> , Users.user_id
2	register_number	varchar(10)	National Registration number. UNIQUE
3	first_name	varchar(30)	Their first name.
4	last_name	varchar(30)	Their last name.
5	email	varchar(255)	nullable.
6	birthday	datetime	Age is automatically calculated.
7	gender	tinyint	0: Male
			1: Female
			2: Other
8	Status	tinyint	0: Last visited in half year. Active.
			1: Visited in 1 years
			2: Visited in 5 years
			3: Visited 5+ years before. RIP
9	created_at	datetime	The first visited time.
10	last_seen_at	datetime	The last visited time.

## employee

Basic information of every staff of the clinic.

Order	Name	Type	Summery
1	employee_id	bigint(20)	Primary key
2	employee_display_number	bigint(20)	UNIQUE. But ordered, never reused.
3	user_id	bigint(20)	FK from user table. NULLABLE. <a href="#">Click here</a> , Users.user_id
5	first_name	varchar(255)	
6	last_name	varchar(255)	
7	prim_phone_number	varchar(32)	int(8) for Mongolia
8	seco_phone_number	varchar(32)	int(8) for Mongolia
7	gender	tinyint(4)	0: Male
			1: Female
			2: Other
8	Status	tinyint(4)	0: Not working
			1: Active on field
			2: Vacation
			3: Training
			4: Intern
9	birthday	date	
12	email	varchar(255)	
14	home address	varchar(255)	
15	hired_at	date	
16	fired_at	date	
17	created_at	datetime	
18	last_updated_at	datetime	

## employee\_phone

Phone numbers of the employees. Employees must have at least 2 numbers.

Order	Name	Type	Summery
1	phone_number_id	bigint(20)	PK
2	employee_id	bigint(20)	FK. employee.employee_id. <a href="#">Click here</a> .
3	phone_number_val	varchar(32)	Phone number value.
3	Label	varchar(255)	Choose who's number is this.(Self, Father, Mother, ...)
4	is_primary	BOOL	One primary number each employee.

5	created_at	datetime	The phone number table and patient table must be created at the same time for each patient.
6	updated_at	datetime	

## position

Employee positions table.

Order	Name	Type	Summery
1	position_id	bigint(20)	Primary key
2	position_type	varchar(50)	UNIQUE. (DOCTOR, MANAGER, SUPPORT...)
3	display_name	varchar(255)	display name (General Dentist, Orthodontist, ...)
4	category	tinyint(4)	0: clinical
			1: support
			2: admin/front desk/finance
5	is_active	BOOL	soft-disable. Some positions can be disabled.
6	description	TEXT NULL	

## employee\_position

Some employee have more than 1 positions, so this table helps to connect positions and employee.

Order	Name	Type	Summery
1	employee_position_id	bigint(20)	Primary key
2	employee_id	bigint(20)	FK from employee table. <a href="#">Click here.</a>
3	position_id	bigint(20)	FK from position table. <a href="#">Click here.</a>
4	is_primary	BOOL	Main position of the employee.
5	started_at	date	
6	ended_at	date	

## patient\_phone

Phone numbers of the patients. Patients must have at least 2 numbers.

Order	Name	Type	Summery
1	phone_number_id	bigint(20)	PK
2	patient_id	bigint(20)	FK. patient.patient_id. <a href="#">Click here.</a>
3	phone_number_val	varchar(32)	Phone number value.

3	Label	varchar(255)	Choose who's number is this.(Self, Father, Mother, ...)
4	is_primary	BOOL	One primary number each patient.
5	created_at	datetime	The phone number table and patient table must be created at the same time for each patient.
6	updated_at	datetime	

## call

Records phone calls.

Order	Name	Type	Summery
1	call_id	bigint(20)	PK
2	phone_number	int(8)	Phone number of the contactor.
3	direction	tinyint(4)	0: receive, in. 1: send, out.
4	begin_call	datetime	
5	end_call	datetime	
6	contact_type	ENUM	0: New contactor. Not patient, not employee. 1: patient_number. 2: employee_number.
7	contactor_id	bigint(20)	NULL. or patient_id or employee_id.
8	note	TEXT	Summery or note for quick look.

## sms

Records sms.

Order	Name	Type	Summery
1	sms_id	bigint(20)	PK
2	phone_number	bigint(8)	Phone number of the contactor.
3	direction	tinyint(4)	0: receive, in. 1: send, out.
4	time	datetime	sent or received time.
5	subject	varchar(255)	Not included in the text body.
6	sms_text	TEXT	Text body.
7	contact_type	ENUM	0: New contactor. Not patient, not employee. 1: patient_number.

			2: employee_number.
8	contacter_id	bigint(20)	NULL. or patient_id or employee_id.
9	note	TEXT	Summery or note for quick look.

## service\_catalog

Every service and treatments of the clinic.

Order	Name	Type	Summery
	service_id	bigint(20)	PK
	service_type	varchar(255)	UNIQUE. (CHILD, ORTHO,...)
	default_duration_time		
	display_number	INT	UI sorted in the catalog and type. Every type has its own sorted list of services.
	doctor_display_name	TEXT	Display name of the service to doctor.
	patient_display_name	TEXT	Display name of the service to doctor.
	disclaimer	TEXT	Warning after the service. (Eat after 2 hours, ...)
	price	int	
	is_active	BOOL	Services can be enabled and edited. But not deleted.
	created_at	date	
	updated_at	date	

## tooth\_definition

This is the "dictionary" of teeth, identifier.

Order	Name	Type	Summery
	tooth_id	bigint(20)	PK
	system	tinyint(4)	0: UNIVERSAL
			1: FDI
			2: PALMER
	code	varchar(8)	UNIQUE(system, code)
	arch	tinyint(4)	0: upper
			1: lower
	quadrant	tinyint(4)	
	index_in_quadrant	tinyint(4)	
	dentition	tinyint(4)	0: permanent

			1: primary
	ui_key	varchar(32)	

## treatment\_item\_tooth

This table connect treatment and tooth. It helps us to store each tooth information.

Order	Name	Type	Summery
	treatment_item_tooth_id	bigint(20)	PK
	treatment_item_id	bigint(20)	FK. treatment_item.treatment_item_id. <a href="#">Click here.</a>
	tooth_id	bigint(20)	FK. tooth_definition.tooth_id
	note	TEXT	NULL
			UNIQUE(treatment_item_id, tooth_id)

## appointment

Appointments of the patient is stored here.

Order	Name	Type	Summery
	appointment_id	bigint(20)	PK
	patient_id	bigint(20)	FK. patient.patient_id. <a href="#">Click here.</a>
	doctor_id	bigint(20)	FK. employee.employee_id. <a href="#">Click here.</a>
	receptionist_id	bigint(20)	FK. employee.employee_id. <a href="#">Click here.</a> The one who created this appointment. Can be doctor.
	start_at	datetime	
	end_at	datetime	end_at = start_at + interval '30 minutes'
	status	tinyint(4)	0: reserved.
			1: canceled.
			2: confirmed. (Will come)
			3: did not show up.
			4: came. (In the clinic on treatment.)
			5: finished. (Finished the treatment and payed.)
	is_new_patient	BOOL	
	planned_service	bigint(20)	FK. service_catalog.service_id. <a href="#">Click here.</a> NULLABLE.
	note	TEXT	Note

	created_at	datetime	
	updated_at	datetime	

## treatment

First part of the clinical record, date time, employees whose involved in this treatment.

Order	Name	Type	Summery
	treatment_id	bigint(20)	PK
	treatment_date	datetime	
	patient_id	bigint(20)	FK. patient.patient_id. <a href="#">Click here.</a>
	doctor_id	bigint(20)	FK. employee.employee_id. <a href="#">Click here.</a>
	assistant_id	bigint(20)	FK. employee.employee_id. <a href="#">Click here.</a> NULLABLE.
	appointment_id	bigint(20)	FK. appointment.appointment_id. <a href="#">Click here.</a> NULLABLE.
	next_appointment_id	bigint(20)	FK. appointment.appointment_id. <a href="#">Click here.</a> NULLABLE.
	note	TEXT	NULL

## treatment\_item

Second part of the clinical record, what services were performed. This table exists because a visit can have multiple services (cleaning + x-ray + filling) or doctor can treat multiple tooth in a appointment. Invoicing becomes straightforward.

Order	Name	Type	Summery
	treatment_item_id	bigint(20)	PK
	treatment_id	bigint(20)	FK. treatment.treatment_id. <a href="#">Click here.</a>
	service_id	bigint(20)	FK. service_catalog.service_id. <a href="#">Click here.</a>
	scope	tinyint(4)	0: none
			1: single_tooth. Choose tooth in treatment_item_tooth.
			2: multi_tooth. Choose teeth in treatment_item_tooth.
			3: upper_arch. Auto-choose upper arch in treatment_item_tooth.
			4: lower_arch. Auto-choose lower arch in treatment_item_tooth.
			5: full_mouth. Auto-choose full mouth in treatment_item_tooth.



	treatment_item_tooth_id	bigint(20)	FK. treatment_item_tooth.treatment_item_tooth_id. <a href="#">Click here</a> . We choose tooth after treatment.

Order	Name	Type	Summery