

### Data Dictionary for “medical\_centre” database.

<b>“treatment” table</b> (stores details about treatments)					
Column Name	Data Type & Length	Null	Constraints	Other	Description
treatment_id	INT	NOT NULL	PK	IDENTITY (1,1)	Identifier for treatment with auto increasing number 1 and seed 1, value type integer (4 bytes) as a primary Key, this field must have a value.
type_treatment	VARCHAR(50)	NOT NULL			Type of treatment defined by a variable char with 50 characters long, this field must have a value.
length_treatment	VARCHAR(25)	NOT NULL			Length of treatment variable defined by a variable char with 25 characters long, this field must have a value.

<b>“appointment” table</b> (stores details about appointments)					
Column Name	Data Type & Length	Null	Constraints	Other	Description
appointment_id	INT	NOT NULL	PK	IDENTITY	Identifier for appointment with auto increasing number, value type integer (4 bytes) as a primary key. This field must have a value.
appointment_date	DATE	NOT NULL			Date of appointment with date data type. This field must have a value.
appointment_time	TIME (0)	NOT NULL			Time of appointment with time data type representing hour after midnight. This field must have a value.
appointment_room	VARCHAR(25)	NOT NULL			Room of appointment defined by a variable char with 25 characters long. This field must have a value.
appointment_reason	VARCHAR(250 )	NOT NULL			Reason of appointment defined by a variable char with 250 characters long. This field must have a value.
doctor_id	INT	NOT NULL	FK (doctor.doctor_id)		Identifier for Doctor, value type integer (4 bytes), referencing the doctor table as a foreign key. This field must have a value.
patient_id	INT	NOT NULL	FK (patient.patient_id)		Identifier for Patient, value type integer (4 bytes), referencing the patient table as a foreign key. This field must have a value.
nurse_id	INT	NULL	FK (nurse.nurse_id)		Identifier for Nurse, value type integer (4 bytes), referencing the nurse table as a foreign key. This field could not have a value.
administrative_id	INT	NULL	FK (administrative_staff.administrative_id)		Identifier for administrative staff, value type integer (4 bytes), referencing the administrative staff table as a foreign key. This field could not have a value.

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<b>“patient” table</b> (stores details about patients)					
Column Name	Data Type & Length	Null	Constraints	Other	Description
patient_id	INT	NOT NULL	PK		Identifier for patient, value type integer (4 bytes) as a primary key. This field must have a value.
first_name	VARCHAR(25)	NOT NULL			First name of patient, variable type character with 25 long characters. This field must have a value.
last_name	VARCHAR(25)	NOT NULL			Last name of patient, variable type character with 25 long characters. This field must have a value.
gender	CHAR(1)	NOT NULL	CHECK (M,F)		Gender of patient, variable type CHAR with 1 long character. This field must have a value and can only be Male or Female.
age	SMALLINT	NOT NULL			Age of patient, variable type small integer (2 bytes). This field must have a value.
email	VARCHAR(25)	NOT NULL	UNIQUE		Electronic mail of patient, variable type char with 25 characters long. This field must have a value and cannot be repeated in the column.
street_address	VARCHAR(50)	NOT NULL			Street address of the patient, variable type char with 50 characters long. This field must have a value.
postal_code	VARCHAR(15)	NOT NULL			Postal code of the patient, variable type char with 15 characters long. This field must have a value.
city	VARCHAR(30)	NOT NULL			City of the patient, variable type char with 30 characters long. This field must have a value.
state_province	VARCHAR(25)	NOT NULL			State Province of the patient, variable type char with 25 characters long. This field must have a value.
phone_number	VARCHAR(20)	NOT NULL			Phone Number of the patient, variable type char with 20 characters long. This field must have a value
emergency_contact_name	VARCHAR(50)	NOT NULL			Name of the contact of emergency of the patient, variable type char with 50 characters long. This field must have a value.
emergency_contact_phone	VARCHAR(20)	NOT NULL			Phone number of emergency contact person of the patient, variable type char with 20 characters long. This field must have a value.

<b>“administrative_staff” table</b> (stores details about general administrative staff)					
Column Name	Data Type & Length	Null	Constraints	Other	Description
administrative_id	INT	NOT NULL	PK		Identifier for administrative staff, value type integer (4 bytes) as a primary key. This field must have a value.
first_name	VARCHAR(25)	NOT NULL			First name of administrative staff, variable type character with 25 long characters. This field must have a value.
last_name	VARCHAR(25)	NOT NULL			Last name of administrative staff, variable type character with 25 long characters. This field must have a value.
gender	CHAR(1)	NOT NULL	CHECK (M,F)		Gender of administrative staff, variable type CHAR with 1 long character. This field must have a value and can only be Male or Female.

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email	VARCHAR(25)	NOT NULL	UNIQUE		Electronic mail of administrative staff, variable type char with 25 characters long. This field must have a value and cannot be repeated in the column.
phone_number	VARCHAR(20)	NOT NULL			Phone Number of the administrative staff, variable type char with 20 characters long. This field must have a value.
department_id	SMALLINT	NOT NULL			Identifier for department of administrative staff, variable type small integer (2 bytes). This field must have a value.

**“prescription” table** (stores details about the prescription depending on doctors)

Column Name	Data Type & Length	Null	Constraints	Other	Description
prescription_id	INT	NOT NULL	PK	IDENTITY	Identifier for prescription with auto increasing number, value type integer (4 bytes) as a primary key. This field must have a value.
prescription_date	DATE	NOT NULL			Date of prescription with date data type. This field must have a value.
prescription_time	TIME(0)	NOT NULL			Time of prescription with time data type representing hour after midnight. This field must have a value.
prescription_type	VARCHAR(10)	NOT NULL			Type of prescription defined by a variable char with 10 characters long, this field must have a value.
appointment_id	INT	NOT NULL	FK(appointment, appointment_id)		Identifier for appointment, value type integer (4 bytes), referencing the appointment table as a foreign key. This field must have a value.
medicine_id	INT	NOT NULL	FK(medicine, medicine_id)		Identifier for medicine, value type integer (4 bytes), referencing the medicine table as a foreign key. This field must have a value.
treatment_id	INT	NOT NULL	FK(treatment, treatment_id)		Identifier for treatment, value type integer (4 bytes), referencing the treatment table as a foreign key. This field must have a value.

**“doctor” table** (stores details about doctor information for the medical management system)

Column Name	Data Type & Length	Null	Constraints	Other	Description
doctor_id	INT	NOT NULL	PK		Identifier for doctor with auto increasing number, value type integer (4 bytes) as a primary key. This field must have a value.
first_name	VARCHAR(25)	NOT NULL			First name of doctor, variable type character with 25 long characters. This field must have a value.
last_name	VARCHAR(25)	NOT NULL			Last name of doctor, variable type character with 25 long characters. This field must have a value.
gender	CHAR(1)	NOT NULL	CHECK (M, F)		Gender of doctor, variable type CHAR with 1 long character. This field must have a value and can only be Male or Female.
email	VARCHAR(25)	NOT	UNIQUE		Electronic mail of doctor, variable type char with

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		NULL			25 characters long. This field must have a value and cannot be repeated in the column.
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“nurse” table (stores details about nursery information for the medical management system)					
Column Name	Data Type & Length	Null	Constraints	Other	Description
nurse_id	INT	NOT NULL	PK		Identifier for nurse with auto increasing number, value type integer (4 bytes) as a primary key. This field must have a value.
first_name	VARCHAR(25)	NOT NULL			First name of nurse, variable type character with 25 long characters. This field must have a value.
last_name	VARCHAR(25)	NOT NULL			Last name of nurse, variable type character with 25 long characters. This field must have a value.
gender	CHAR(1)	NOT NULL	CHECK (M, F)		Gender of nurse, variable type CHAR with 1 long character. This field must have a value and can only be Male or Female.
email	VARCHAR(25)	NOT NULL	UNIQUE		Electronic mail of nurse, variable type char with 25 characters long. This field must have a value and cannot be repeated in the column.
phone_number	VARCHAR(20)	NOT NULL			Phone Number of the nurse, variable type char with 20 characters long. This field must have a value.
department_name	VARCHAR(25)	NOT NULL			Department name of nurse, variable type char with 25 characters long. This field must have a value and cannot be repeated in the column.

“medicine” table (stores details about medicine information for prescription)					
Column Name	Data Type & Length	Null	Constraints	Other	Description
medicine_id	INT	NOT NULL	PK	IDENTITY	Identifier for medicine with auto increasing number, value type integer (4 bytes) as a primary key. This field must have a value.
name	VARCHAR(25)	NOT NULL			Name of medicine, variable type character with 25 long characters. This field must have a value.
type_medicine	VARCHAR(50)	NOT NULL			Type of medicine, variable type character with 50 long characters. This field must have a value.
manufacturer	VARCHAR(25)	NOT NULL			Manufacturer Name, variable type character with 25 long characters. This field must have a value.
cost	MONEY	NOT NULL	CHECK (cost >= 0)		Cost of medicine, variable type money (8 bytes). This field must have a value and must be great or equal zero.