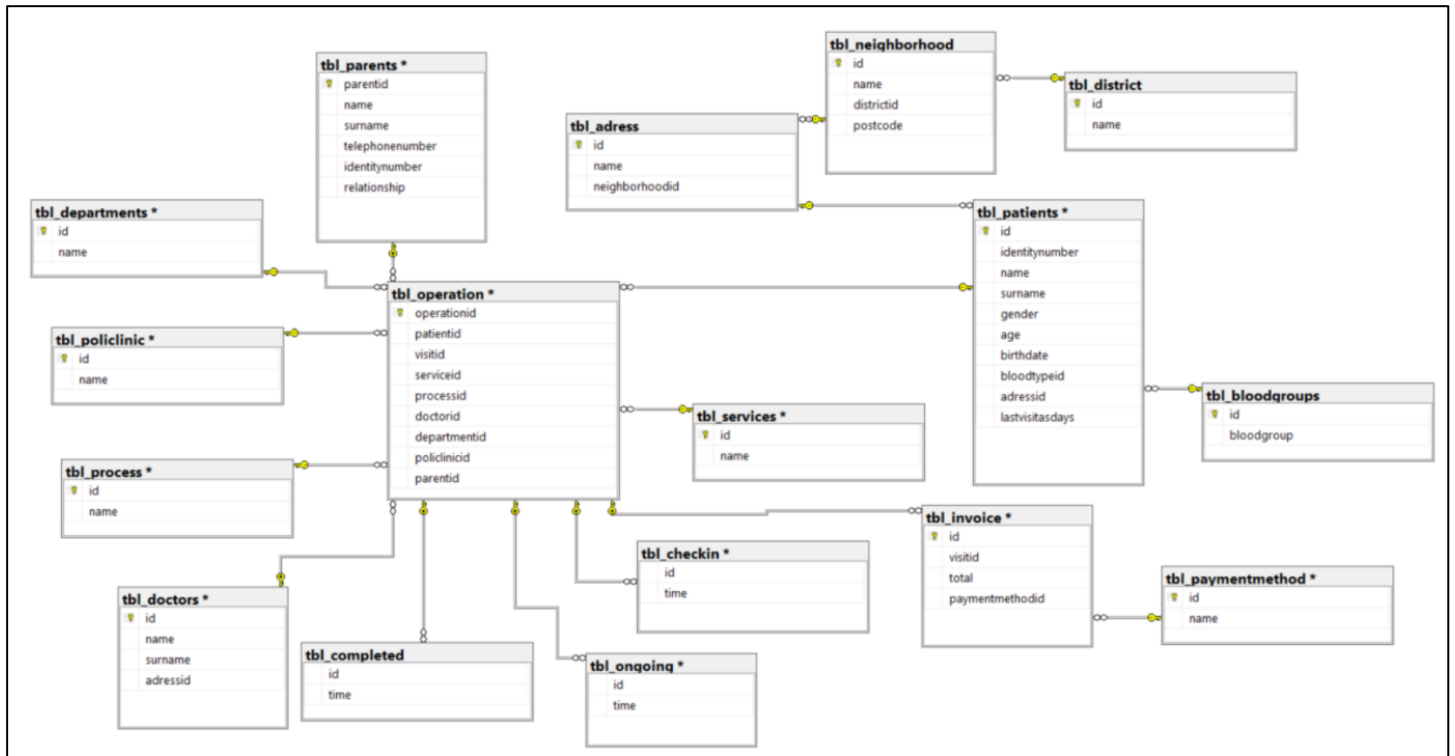


CHILDREN' HOSPITAL
DATA DICTIONARY

DATA OVERFLOW
JANUARY 2021

1. Children's Hospital Diagram




1.1. Tables

1.1.1. Table: tbl_address

Address informations.

Columns

	Name	Data type	N	Description / Attributes
	id	int		Primary key for address record.
	name	nvarchar(50)		Name of the
	neighbourhoodid	int		Foreign key to tbl_neighbourhood table.

Links to

	Table	Join	Title / Name / Description
➤	tbl_neighbourhood	tbl_address.neighbourhoodid= tbl_neighbourhood.id	FK_tbl_neighbourhood_tbl_address_id Foreign key constraint referencing tbl_neighbourhoodid.id

Linked from

	Table	Join	Title / Name / Description
←	tbl_doctors	tbl_address.id= tbl_doctors.addressid	FK_tbl_doctors_tbl_address_id Foreign key constraint referencing tbl_doctors.addressid
←	tbl_patients	tbl_address.id= tbl_patients.addressid	FK_tbl_patients_tbl_address_id Foreign key constraint referencing tbl_patients.addressid

Uses

Name
tbl_address
tbl_neighbourhood

Used by

Name
tbl_address
tbl_doctors
tbl_patients

1.1.2. Table: tbl_bloodgroups

Blood group informations.



Columns

	Name	Data type	N	Description / Attributes
🔑	id	int		Primary key for bloodgroup record.
	name	varchar(5)		Name of blood groups.

Linked from

	Table	Join	Title / Name / Description
←	tbl_patients	tbl_bloodgroups.id = tbl_patients.bloodtypeid	FK_tbl_patients_tbl_bloodgroups_bloodtypeid Foreign key constraint referencing tbl_bloodgroups.id


Used by

Name
 tbl_bloodgroups
 tbl_patients


1.1.3. Table: tbl_checkin

Checkin operations according to operations table.



Column

	Name	Data type	N	Description / Attributes
	id	int		Primary key for checkin records.
	time	datetime		Date of checkin operations.

Links to

	Table	Join	Title / Name / Description
	tbl_operation	tbl_checkin.id = tbl_operation.operationid	FK_ tbl_checkin_tbl_operation. operationid Foreign key constraint referencing tbl_operation.operationid


Uses

Name
 tbl_checkin
 tbl_operation

1.1.4. Table: tbl_completed

Table holding completed operations information.

Column

	Name	Data type	N	Description / Attributes
	id	int		Primary key for completed records.
	time	datetime		Date of the completed records.

Links to

	Table	Join	Title / Name / Description
➤	tbl_operation	tbl_completed.id = tbl_operation.operationid	FK_ tbl_completed_tbl_operation. operationid Foreign key constraint referencing tbl_operation.operationid

Uses

Name
tbl_completed
tbl_operation

1.1.5. Table: tbl_departments

Department information.

Columns

	Name	Data type	N	Description / Attributes
🔑	id	int		Primary key for departments records.
	name	nvarchar(50)		Name of the departments.

Linked from


	Table	Join	Title / Name / Description
➤	tbl_operation	tbl_departments.id = tbl_operation.operationid	FK_ tbl_completed_tbl_operation. operationid Foreign key constraint referencing tbl_operation.operationid

Used by


Name
tbl_departments
tbl_operation

1.1.6. Table: tbl_district
District information.



Column

	Name	Data type	N	Description / Attributes
	id	int		Primary key for district records.
	name	nvarchar(25)		Name of the districts.

Linked from


	Table	Join	Title / Name / Description
	tbl_neighbourhood	tbl_neighbourhood. districtid = tbl_district.id	FK_ tbl_neighbourhood. districtid Foreign key constraint referencing tbl_district.id

Used by


Name
 tbl_district
 tbl_neighbourhood

1.1.7. Table: tbl_doctors
Doctors information.

Column

	Name	Data type	N	Description / Attributes
	Id	int		Primary key for doctor records.
	name	nvarchar(30)		Name of doctors.
	surname	nvarchar(30)		Surname of doctors.
	adressid	int	N	Address of the doctors.

Links to

	Table	Join	Title / Name / Description
	tbl_address	tbl_address. id= tbl_doctors.adressid	FK tbl_address_tbl_doctor_adressid Foreign key constraint referencing tbl_doctors.id

Linked from

	Table	Join	Title / Name / Description
←	tbl_operation	tbl_operation. doctorid = tbl_doctors.id	FK tbl_operation_tbl_doctors_doctorsid Foreign key constraint referencing tbl_operation.doctorid

Uses

Name
tbl_doctor
tbl_address

Used by

Name
tbl_doctor
tbl_operation

1.1.8. Table: tbl_invoice

Invoice information of the patients.

Column

	Name	Data type	N	Description / Attributes
🔑	id	int		Primary key for invoice records.
	visitid	nvarchar(10)		Foreign key to tbl_operation table.
	paymentmethodid	int		Foreign key to tbl_paymentmethod table.
	total	float		Total charge of the services.


Uses

Name
tbl_invoice
tbl_operation
tbl_services
tbl_paymentmethod


1.1.9. Tablo: tbl_neighbourhood

Neighbourhood information.


Column

	Name	Data type	N	Description / Attributes
	id	int		Primary key for neighbourhood records.
	name	nvarchar(50)		Name of the neighbourhoods.
	districtid	int		Foreign key to tbl_district tables.
	postalcode	int	N	Postal codes of the neighbourhoods.



Links to

	Table	Join	Title / Name / Description
	tbl_district	tbl_neighbourhood.districtid = tbl_district.id	FK tbl_district_tbl_neighbourhood _ districtid Foreign key constraint referencing tbl_district.id



Linked from

	Table	Join	Title / Name / Description
	tbl_address	tbl_neighbourhood.id = tbl_address.neighbourhoodid	FK tbl_address_tbl_neighbourhood _ neighbourhoodid Foreign key constraint referencing tbl_neighbourhood.id

Uses

Name
 tbl_neighbourhood
 tbl_district


Used by

Name
 tbl_neighbourhood
 tbl_address


1.1.10. Table: tbl_ongoing

Current information of ongoing processes.



Column

	Name	Data type	N	Description / Attributes
	id	int		Primary key
	time	datetime		

Links to

	Table	Join	Title / Name / Description
	tbl_operation	tbl_operation.id = tbl_ongoing.id	FK_ tbl_operation_tbl_ongoing_id Foreign key constraint referencing tbl_ongoing.id


Uses

Name
 tbl_ongoing
 tbl_operation

1.1.11. Table: tbl_operation

Table containing all the information about a doctor's examination.

Column

	Name	Data type	N	Description / Attributes
	operationid	int		Primary key for operation records
	patientid	int		Identity / Auto increment column
	visitid	varchar(10)		Primary key to tbl_patients table. Auto increment column.
	serviceid	int		Auto increment column.
	processid	int		Primary key to tbl_services table.
	doctorid	int		Primary key to tbl_process table.
	departmentid	int		Primary key to tbl_doctors table.
	policlinicid	int		Primary key to tbl_department table.
	parentid	int	N	Primary key to tbl_policlinic table.
				Primary key to tbl_parents table. Auto increment column.

Links to

	Table	Join	Title / Name / Description
➤	tbl_patients	tbl_operation.patientid = tbl_patients.patientid	FK_tbl_patients.patientid Foreign key constraint referencing tbl_operation.patientid
➤	tbl_services	tbl_operation.serviceid = tbl_services.id	FK_tbl_services.id Foreign key constraint referencing tbl_operation.serviceid
➤	tbl_process	tbl_operation.processid = tbl_process.id	FK_tbl_process.id Foreign key constraint referencing tbl_operation.processid
➤	tbl_doctors	tbl_operation.doctorid = tbl_doctors.id	FK_tbl_doctors.id Foreign key constraint referencing tbl_operation.doctorid
➤	tbl_departments	tbl_operation.departmentid = tbl_departments.id	FK_tbl_departments.id Foreign key constraint referencing tbl_operation.departmentid
➤	tbl_policlinic	tbl_operation.policlinicid = tbl_policlinic.id	FK_tbl_policlinic.id Foreign key constraint referencing tbl_operation.policlinicid
➤	tbl_parents	tbl_operation.parentid = tbl_parents.id	FK_tbl_parents.id Foreign key constraint referencing tbl_operation.parentid

Linked from

	Table	Join	Title / Name / Description
➤	tbl_checkin	tbl_operation.operationid = tbl_checkin.id	FK_tbl_checkin.id Foreign key constraint referencing tbl_operation.operationid
➤	tbl_completed	tbl_operation.operationid = tbl_completed.id	FK_tbl_operation.operationid Foreign key constraint referencing tbl_operation.operationid

←	tbl_ongoing	tbl_operation.id=tbl_ongoing.operationid	FK_ tbl_operation.id Foreign key constraint referencing tbl_ongoing.operationid
←	tbl_invoice	tbl_operation. visitid = tbl_invoice.visitid	FK_ tbl_invoice._tbl_operation_visitid Foreign key constraint referencing tbl_operation.visitid

Uses

Name
tbl_operation
tbl_patients
tbl_services
tbl_process
tbl_doctors
tbl_departments
tbl_policlinic
tbl_parents

Used by

Name
tbl_operation
tbl_checkin
tbl_completed
tbl_ongoing
tbl_invoice

1.1.12. Tablo: tbl_parents

Parents' information.



Column

	Name	Data type	N	Description / Attributes
🔑	id	int		Primary key for service records. Identity / Auto increment column.
	name	nvarchar(30)		Name of parents.
	surname	nvarchar(50)		Surname of parents.
	phone	varchar(15)	N	Phone number of parents.
	identitynumber	nvarchar(11)	N	Identity number of parents.
	relationship	nvarchar(50)	N	Relationship of parents with patients.

Linked from


	Table	Join	Title / Name / Description
←	tbl_operation	tbl_parents.id = tbl_operation.parentid	FK_ tbl_ operation_tbl_parents_parentid Foreign key constraint referencing tbl_parents.id

Used by

Name
 tbl_parents
 tbl_operation

1.1.13. **Tablo: tbl_patients** Patient's information.

Column

	Name	Data type	N	Description / Attributes
	id	int		Primary key for patient records.
	identitynumber	nvarchar(11)		Identity numbers of the patients.
	name	nvarchar(30)		Name of the patients.
	surname	nvarchar(30)		Surname of the patients.
	gender	nchar(6)		Gender of the patients.
	age	float	N	Age of the patients.
	birthdate	date	N	Birth date of the patients.
	bloodtypeid	int	N	Blood group id of patients.
	adressid	int	N	Patients associated with this address.
	lastvisitasdays	int	N	Number of days since the patient' last visit.

Links to

	Table	Join	Title / Name / Description
➤	tbl_bloodgroups	tbl_patients.bloodtypeid = tbl_bloodgroups.id	FK_ tbl_ patients_tbl_bloodgroups_bloodtypeid Foreign key constraint referencing tbl_bloodgroups.id
➤	tbl_address	tbl_patients.addressid = tbl_address.id	FK_tbl_patients_tbl_address_addressid Foreign key constraint referencing tbl_address.id

Uses

Name
tbl_patients
tbl_bloodgroups
tbl_address
tbl_completed

1.1.14. Tablo: tbl_paymentmethod

Information about payment method of the patients.



Column

	Name	Data type	N	Description / Attributes
🔑	id	int		Primary key for payment method records.
	type	nvarchar(30)		Name of payment method.

Linked from

	Table	Join	Title / Name / Description
➤	tbl_invoice	tbl_paymentmethod.id = tbl_invoice.paymentmethodid	FK_tbl_invoice_tbl_paymentmethod_paymentmethodid Foreign key constraint referencing tbl_paymentmethod.id


Used by

Name
 tbl_paymentmethod
 tbl_invoice


1.1.15. Table: tbl_policlinic

Information of policlinics.



Column

	Name	Data type	N	Description / Attributes
	id	int		Primary key for policlinic records.
	name	nvarchar(50)		

Linked from

	Table	Join	Title / Name / Description
	tbl_operation	tbl_policlinic.id = tbl_operation.policlinicid	FK_ tbl_operation_tbl_policlinic_policlinicid Foreign key constraint referencing tbl_policlinic.id


Used by

Name
 tbl_policlinic
 tbl_operation

1.1.16. Table: tbl_process

Process information.

Column

	Name	Data type	N	Description / Attributes
	id	int		Primary key for process records.
	name	nvarchar(15)		Name of process.

Linked from

	Table	Join	Title / Name / Description
←	tbl_operation	tbl_process.id = tbl_operation.processid	FK_ tbl_operation_tbl_process_processid Foreign key constraint referencing tbl_process.id

Used by

Name
tbl_process
tbl_operation

1.1.17. Tablo: tbl_services

Information of services.

Column

	Name	Data type	N	Description / Attributes
🔑	id	int		Primary key for service records.
	name	nvarchar(255)		Name of services.
	price	float		Price of services.

Linked from

	Table	Join	Title / Name / Description
←	tbl_operation	tbl_services.id = tbl_operation.serviceid	FK_ tbl_operation_tbl_services_serviceid Foreign key constraint referencing tbl_services.id

Used by

Name
tbl_services
tbl_operation

1.2. Views

1.2.1. View: view_operationcountbypoliclinic

Poliklinik bazında bakılan hasta sayısı.

	Name	Data type	N	Description / Attributes
	poliklinik bazında işlem sayısı (operationid)	int		
	poliklinik isimleri (policlinic_name)	nvarchar(255)	N	

1.2.2. View: view_operationcountbyservice

Servis bazında işlem sayılarını gösterir.

	Name	Data type	N	Description / Attributes
	servis bazında işlem sayısı (operationid)	int		
	servis (services.name)	nvarchar(255)	N	

1.3. Procedures

1.3.1. Procedure: sp_insertpatient

Takes patient information and inserts to tbl_patient table.

	Table	Join	Title / Name / Description
»@	patientidno	nvarchar(11)	Citizenship number of patient
»@	name	nvarchar(30)	Name of patient
»@	surname	nvarchar(30)	Surname of patient
»@	gender	nchar(10)	Gender of patient
»@	birthdate	date	Birthdate of patient
»@	adressid	int	Id of the patient's adress

1.3.2. Procedure: sp_insertoperation

Takes patient information and operation information. If patient doesn't exist at the patients table with given pidnumber. Inserts the patient then inserts operation. If the patient exists passes the patient insert section and directly inserts the operation.

	Table	Join	Title / Name / Description
»@	pidnumber	nvarchar(11)	Citizenship number of patient
»@	name	nvarchar(30)	Name of patient
»@	surname	nvarchar(30)	Surname of patient

»@	gender	nchar(10)	Gender of patient
»@	birthdate	date	Birthdate of patient
»@	adressid	int	Id of the patient's adress
»@	serviceid	int	Id of the given service
»@	processid	int	Process id of the operation
»@	doctorid	int	Id of the doctor
»@	departmentid	int	Id of the department
»@	policlinicid	int	Id of the policlinic

1.3.3. Procedure: sp_update_lastvisit

Updates all patients' lastvisitasdays column. Finds the date a patient last visited the hospital then compares it with today's date. Then updates the related column.

Backup Strategies

The backup strategy is determined to taking the risk of 5 minutes data loss. According to the plan the execution period of backups are given below.

- Full Backup : Everyday (Starting 05:00)
- Differential Backup : Every 30 minutes
- Transactional log backup : Every 5 minutes