Final Project

Data Dictionary

12/21/2020

Generated with

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Legend

- Primary key
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- Active trigger
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- Many to one relation
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- User-defined one to many relation
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- One to one relation
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- Input
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- Input/Output
- Uses dependency
- User-defined uses dependency
- Used by dependency
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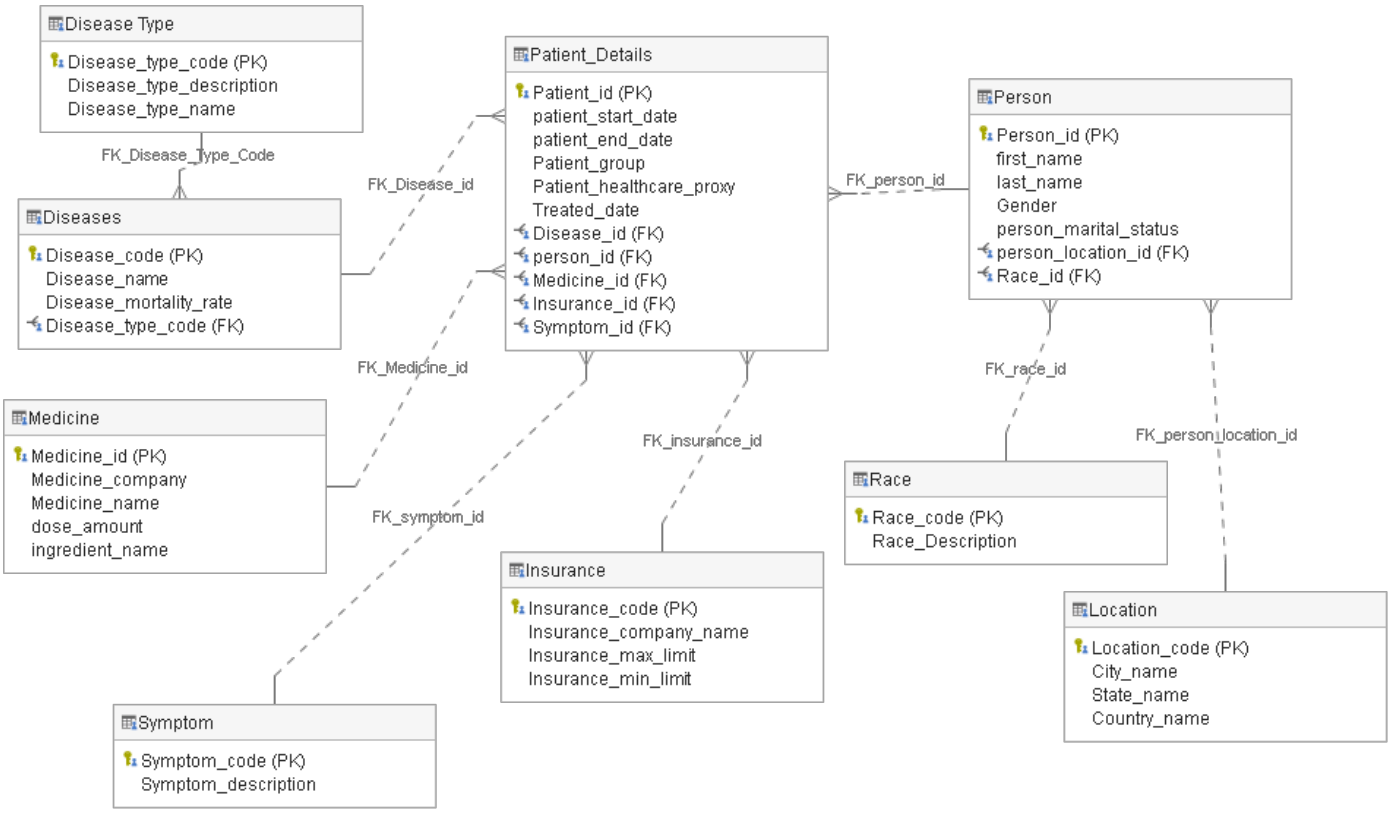
Final Project

1. Project_ERD



1.1. Tables

1.1.1. Table: Disease Type

Columns

		Name	Data type	Description / Attributes
		Disease_type_code (PK) (PK)	int	Code of disease type e.g (1-4 etc) **Identity / Auto increment**
		Disease_type_description	text	Description of the type of disease e.g. (infectious disease details) **Nullable**
		Disease_type_name	Varchar(250)	Name of the type of disease e.g. (infectious disease)

Linked from

	Table	Join	Title / Name / Description
	Diseases	**Disease Type**Disease_type_code = DiseasesDisease_type_code	FK_Disease_Type_Code fk_Disease_Type_Diseases

Unique keys

		Name / Description
	Disease_type_code	pk_Disease Type_Disease_type_code

Used By

	Name
	Disease Type

	Name
	Diseases (FK_Disease_Type_Code)

1.1.2. Table: Diseases

Columns

		Name	Data type	Description / Attributes
		Disease_code (PK) (PK)	int	Key of Disease. **Identity / Auto increment**
		Disease_name	varchar(250)	Name of Disease e.g. (Flu) **Nullable**
		Disease_mortality_rate	float	Disease mortality rate e.g. (0.10%) **Nullable**
		Disease_type_code (FK) (FK)	int	Code of type of diseases e.g. (1 for infectious disease) **References**: Disease Type

Links to

	Table	Join	Title / Name / Description
	Disease Type	**Diseases**Disease_type_code = Disease TypeDisease_type_code	FK_Disease_Type_Code fk_Disease_Type_Diseases

Linked from

	Table	Join	Title / Name / Description
	Patient_Details	**Diseases**Disease_code = Patient_DetailsDisease_id	FK_Disease_id fk_Diseases_Patient_Details

Unique keys

		Name / Description
	Disease_code	pk_Diseases_Disease_code

Uses

	Name
	Diseases
	Disease Type (FK_Disease_Type_Code)

Used By

	Name
	Diseases
	Patient_Details (FK_Disease_id)

1.1.3. Table: Insurance

Columns

		Name	Data type	Description / Attributes
		Insurance_code (PK) (PK)	int	Code of the insurance **Identity / Auto increment**
		Insurance_company_name	varchar(250)	Name of insurance company e.g. (state-farm) **Nullable**

		Name	Data type	Description / Attributes
		Insurance_max_limit	float	Max limit of the insurance e.g. ($1M) **Nullable**
		Insurance_min_limit	float	Min limit of the insurance e.g. ($110.50) **Nullable**

Linked from

	Table	Join	Title / Name / Description
	Patient_Details	**Insurance**Insurance_code = Patient_DetailsInsurance_id	FK_insurance_id fk_Insurance_Patient_Details

Unique keys

		Name / Description
	Insurance_code	pk_Insurance_Insurance_code

Used By

	Name
	Insurance
	Patient_Details (FK_insurance_id)

1.1.4. Table: Location

Columns

		Name	Data type	Description / Attributes
		Location_code (PK) (PK)	int	Code of the description e.g (1-10) etc **Identity / Auto increment**
		City_name	varchar(250)	Name of the city e.g (Setauket, NYC) etc
		State_name	varchar(250)	Name of State/province e.g NY, NJ, Islamabad, Beijing etc
		Country_name	varchar(250)	Name of country e.g (United States of America, Pakistan, China) etc.

Linked from

	Table	Join	Title / Name / Description
	Person	**Location**Location_code = Personperson_location_id	FK_person_location_id fk_Location_Person

Unique keys

		Name / Description
	Location_code	pk_Location_Location_code

Used By

	Name
	Location
	Person (FK_person_location_id)

1.1.5. Table: Medicine

Columns

		Name	Data type	Description / Attributes
		Medicine_id (PK) (PK)	int	id of the medicine (1-10) etc **Identity / Auto increment**
		Medicine_company	varchar(250)	name of the company who made this medicine e.g. (Pfizer) **Nullable**
		Medicine_name	varchar(250)	Name of the medicine e.g. (Tylenol) **Nullable**
		dose_amount	float	dose (1 tablets etc) **Nullable**
		ingredient_name	varchar(250)	names of ingredients e.g. salt, alcohol etc **Nullable**

Linked from

	Table	Join	Title / Name / Description
	Patient_Details	**Medicine**Medicine_id = Patient_Details**Medicine**_id	FK_Medicine_id fk_Medicine_Patient_Details

Unique keys

		Name / Description
	Medicine_id	pk_Medicine_Medicine_id

Used By

	Name
	Medicine
	Patient_Details (FK_Medicine_id)

1.1.6. Table: Patient_Details

Columns

		Name	Data type	Description / Attributes
		Patient_id (PK) (PK)	int	patient id e.g. (1-10) **Identity / Auto increment**
		patient_start_date	date	Start date of when patient got this disease
		patient_end_date	date	end date of when patient got this disease
		Patient_group	int	patient group (1-3) i.e. child, elderly or adult
		Patient_healthcare_proxy	boolean	Healthcare proxy (Yes/No)
		Treated_date	int	Date of when this patient was treated.
		Disease_id (FK) (FK)	int	Disease Id from disease table **References**: Diseases
		person_id (FK) (FK)	int	person id from person table **References**: Person
		Medicine_id (FK) (FK)	int	ID of medicine which is a FK **References**: Medicine
		Insurance_id (FK) (FK)	int	insurance id from insurance table **References**: Insurance

		Name	Data type	Description / Attributes
		Symptom_id (FK) (FK)	int	ID of symptoms which is a FK **References**: Symptom

Links to

	Table	Join	Title / Name / Description
	Diseases	**Patient_Details**Disease_id = DiseasesDisease_code	FK_Disease_id fk_Diseases_Patient_Details
	Insurance	**Patient_Details**Insurance_id = InsuranceInsurance_code	FK_insurance_id fk_Insurance_Patient_Details
	Medicine	**Patient_Details**Medicine_id = MedicineMedicine_id	FK_Medicine_id fk_Medicine_Patient_Details
	Person	**Patient_Details**person_id = PersonPerson_id	FK_person_id fk_Person_Patient_Details
	Symptom	**Patient_Details**Symptom_id = SymptomSymptom_code	FK_symptom_id fk_Symptom_Patient_Details

Unique keys

		Name / Description
	Patient_id	pk_Patient_Details_Patient_id

Uses

Name
Patient_Details
Diseases (FK_Disease_id)
Insurance (FK_insurance_id)
Medicine (FK_Medicine_id)
Person (FK_person_id)
Symptom (FK_symptom_id)

1.1.7. Table: Person

Columns

		Name	Data type	Description / Attributes
		Person_id (PK) (PK)	int	person id like (1-10) **Identity / Auto increment**
		first_name	varchar(250)	first name (John) **Nullable**
		last_name	varchar(250)	last name e.g. (Doe) **Nullable**
		Gender	varchar(250)	Gender information (male or female)
		person_marital_status	Varchar(250)	information for marital status e.g (single, married, widow etc)
		person_location_id (FK) (FK)	int	location id (1-10) FK **References**: Location
		Race_id (FK) (FK)	int	race id (1-10) FK **References**: Race

Links to

	Table	Join	Title / Name / Description
	Location	**Person**person_location_id = LocationLocation_code	FK_person_location_id fk_Location_Person
	Race	**Person**Race_id = RaceRace_code	FK_race_id fk_Race_Person

Linked from

	Table	Join	Title / Name / Description
	Patient_Details	**Person**Person_id = Patient_Detailsperson_id	FK_person_id fk_Person_Patient_Details

Unique keys

		Name / Description
	Person_id	pk_Person_Person_id

Uses

	Name
	Person
	Location (FK_person_location_id)
	Race (FK_race_id)

Used By

	Name
	Person
	Patient_Details (FK_person_id)

1.1.8. Table: Race

Columns

		Name	Data type	Description / Attributes
		Race_code (PK) (PK)	int	code of the race e.g. (1-10) **Identity / Auto increment**
		Race_Description	text	description of race e.g. (white, black, asian) etc **Nullable**

Linked from

	Table	Join	Title / Name / Description
	Person	**Race**Race_code = PersonRace_id	FK_race_id fk_Race_Person

Unique keys

		Name / Description
	Race_code	pk_Race_Race_code

Used By

	Name
	Race
	Person (FK_race_id)

1.1.9. Table: Symptom

Columns

		Name	Data type	Description / Attributes
		Symptom_code (PK) (PK)	int	Sypmtom ID like 1-10 etc **Identity / Auto increment**
		Symptom_description	text	Description of symptom e.g feeling cold, sick,pain in body etc **Nullable**

Linked from

	Table	Join	Title / Name / Description
	Patient_Details	**Symptom**Symptom_code = Patient_Details**Symptom_id**	FK_symptom_id fk_Symptom_Patient_Details

Unique keys

		Name / Description
	Symptom_code	pk_Symptom_Symptom_code

Used By

	Name
	Symptom
	Patient_Details (FK_symptom_id)