



















patients (16)

|  |  |  |  |
| --- | --- | --- | --- |
| **attributes** | **types** | **constraints** | **keys** |
| id | char (36) | not null | PK |
| created | datetime | not null |  |
| modified | datetime | not null |  |
| patient\_number | varchar(8) | not null |  |
| patient\_firstname | varchar(255) | not null |  |
| patient\_lastname | varchar(255) | not null |  |
| patient\_middlename | varchar(255) |  |  |
| dob | date | not null |  |
| picture | blob |  |  |
| occupation | varchar(255) |  |  |
| gender | enum | not null  ‘Male’, ‘Female’ |  |
| race | enum | not null  “African or African American”,  “Asian or Asian American”,  “Caucasian or European American”,  “Native American or Native Alaskan ”,  “Other Race” |  |
| street | varchar(255) |  |  |
| postal\_code | varchar(10) |  |  |
| city | varchar(255) |  |  |
| state | enum | All states |  |

visits (4)

|  |  |  |  |
| --- | --- | --- | --- |
| **attributes** | **types** | **constraints** | **keys** |
| id | int | not null | PK |
| created | datetime | not null |  |
| modified | datetime | not null |  |
| patient\_id | char(36) | not null | FK |

medhistory\_complaints (12)

|  |  |  |  |
| --- | --- | --- | --- |
| **attributes** | **types** | **constraints** | **keys** |
| id | int | not null | PK |
| created | datetime | not null |  |
| modified | datetime | not null |  |
| visit\_id | int | not null | FK |
| complaints | text | not null |  |
| hypo | enum | not null “yes” or “no” |  |
| weight\_gain | enum | not null “yes” or “no” |  |
| renal\_gu | enum | not null “yes” or “no” |  |
| gi\_sx | enum | not null “yes” or “no” |  |
| chf | enum | not null “yes” or “no” |  |
| cvd | enum | not null “yes” or “no” |  |
| bone | enum | not null “yes” or “no” |  |

vitals\_labs (13)

|  |  |  |  |
| --- | --- | --- | --- |
| **attributes** | **types** | **constraints** | **keys** |
| id | int | not null | PK |
| created | datetime | not null |  |
| modified | datetime | not null |  |
| visit\_id | int | not null | FK |
| weight | float | not null |  |
| height | float | not null |  |
| bps | int | not null |  |
| bpd | int | not null |  |
| bmi | float |  |  |
| bmi\_status | varchar(255) |  |  |
| A1c | float | not null |  |
| eGFR | int |  |  |
| notes | text |  |  |

diagnoses (7)

|  |  |  |  |
| --- | --- | --- | --- |
| **attributes** | **types** | **constraints** | **keys** |
| id | int | not null | PK |
| created | datetime | not null |  |
| modified | datetime | not null |  |
| patient\_id | char(36) | not null | FK |
| dxname | enum | ‘Non-insulin-dependent diabetes mellitus’ |  |
| icd10code | enum | not null,  “E11” |  |
| Icd9code | enum | Not null,  “250.00”, “250.02” |  |

drug\_allergies(15)

|  |  |  |  |
| --- | --- | --- | --- |
| **attributes** | **types** | **constraints** | **keys** |
| id | int | not null | PK |
| created | datetime | not null |  |
| modified | datetime | not null |  |
| patient\_id | char(36) | not null | FK |
| met | enum | not null,  ‘yes’,’no’ |  |
| dpp\_4i | enum | not null,  ‘yes’,’no’ |  |
| glp\_1ra | enum | not null,  ‘yes’,’no’ |  |
| tzd | enum | not null,  ‘yes’,’no’ |  |
| agi | enum | not null,  ‘yes’,’no’ |  |
| colsvl | enum | not null,  ‘yes’,’no’ |  |
| bcr-or | enum | not null,  ‘yes’,’no’ |  |
| su\_gln | enum | not null,  ‘yes’,’no’ |  |
| insulin | enum | not null,  ‘yes’,’no’ |  |
| sglt\_2 | enum | not null,  ‘yes’,’no’ |  |
| praml | enum | not null,  ‘yes’,’no’ |  |

treatments (7)

|  |  |  |  |
| --- | --- | --- | --- |
| **attributes** | **types** | **constraints** | **keys** |
| id | int | not null | PK |
| created | datetime | not null |  |
| modified | datetime | not null |  |
| visit\_id | int | not null | FK |
| prescriber\_username | varchar(255) | not null |  |
| a1c\_goal | float |  |  |
| weight\_goal | float |  |  |

treatment\_run\_algorithms (13)

|  |  |  |  |
| --- | --- | --- | --- |
| **attributes** | **types** | **constraints** | **keys** |
| id | int | not null | PK |
| created | datetime | not null |  |
| modified | datetime | not null |  |
| treatment\_id | int | not null | FK |
| type | enum | not null  “lifestyle modification”  “monotherapy”,  “dual\_therapy”,  “triple\_therapy” |  |
| recommendations | text |  |  |
| medicine\_name\_one | varchar(255) |  |  |
| dose\_one | float |  |  |
| medicine\_name\_two | varchar(255) |  |  |
| dose\_two | float |  |  |
| medicine\_name\_three | varchar(255) |  |  |
| dose\_three | float |  |  |
| edited\_by\_user | enum | not null “yes”, ”no” |  |

medicines (14)

|  |  |  |  |
| --- | --- | --- | --- |
| **attributes** | **types** | **constraints** | **keys** |
| id | int | not null | PK |
| created | datetime | not null |  |
| modified | datetime | not null |  |
| medicine\_name | varchar(255) | not null |  |
| min\_dose | float | not null |  |
| max\_dose | float | not null |  |
| metric | char(8) | not null |  |
| hypo | enum | “0”,”1”,”2”,”3” |  |
| weight | enum | “0”,”1”,”2”,”3” |  |
| renal\_gu | enum | “0”,”1”,”2”,”3” |  |
| gi\_sx | enum | “0”,”1”,”2”,”3” |  |
| chf | enum | “0”,”1”,”2”,”3” |  |
| cvd | enum | “0”,”1”,”2”,”3” |  |
| bone | enum | “0”,”1”,”2”,”3” |  |

users (9)

|  |  |  |  |
| --- | --- | --- | --- |
| **attributes** | **types** | **constraints** | **keys** |
| id | int | not null | PK |
| created | datetime | not null |  |
| modified | datetime | not null |  |
| email |  | not null |  |
| password |  | not null |  |
| reset\_token | char(64) |  |  |
| username | varchar(45) |  |  |
| openid | varchar(64) |  |  |
| service | varchar(45) |  |  |

user\_profiles (9)

|  |  |  |  |
| --- | --- | --- | --- |
| **attributes** | **types** | **constraints** | **keys** |
| id | int | not null | PK |
| created | datetime | not null |  |
| modified | datetime | not null |  |
| user\_id | int | not null | FK |
| title | varchar(255) |  |  |
| user\_firstname | varchar(255) | not null |  |
| user\_lastname | varchar(255) | not null |  |
| phone | varchar(255) |  |  |
| address | varchar(255) |  |  |

Notes:

medhistory\_complaints, medicines

Hypo – hypoglycemia

Weight – weight gain

Renal/GU (Genitourinary) – Renal symptoms

GI Sx – Gastrointestinal symptoms

CHF – coronary heart disease ( ischemic heart disease IHD) ( I20-I25)

CVD – cardiovascular disease (I51.6)

BONE – osteoporosis (M80-M82)

vitals\_labs

eGFR – estimated glomerular filtration rate

a1c - blood glucose test

medicines

“0” - neutral

“1” - few adverse events or possible benefits

“2” – use with caution

“3” – likelihood of adverse effects