**CREATE TABLE** concept
(
 **concept\_id INTEGER**,
 **concept\_name VARCHAR**(255),
 **domain\_id VARCHAR**(20),
 **vocabulary\_id VARCHAR**(20),
 **concept\_class\_id VARCHAR**(20),
 **standard\_concept VARCHAR**(1),
 **concept\_code VARCHAR**(50),
 **valid\_start\_date TIMESTAMP**,
 **valid\_end\_date TIMESTAMP**,
 **invalid\_reason VARCHAR**(1)
)
STORED **AS** PARQUET
;

**CREATE TABLE** vocabulary
(
 **vocabulary\_id VARCHAR**(20),
 **vocabulary\_name VARCHAR**(255),
 **vocabulary\_reference VARCHAR**(255),
 vocabulary\_version **VARCHAR**(255),
 **vocabulary\_concept\_id INTEGER**)
STORED **AS** PARQUET
;

**CREATE TABLE domain**(
 **domain\_id VARCHAR**(20),
 **domain\_name VARCHAR**(255),
 **domain\_concept\_id INTEGER**)
STORED **AS** PARQUET
;

**CREATE TABLE** concept\_class
(
 **concept\_class\_id VARCHAR**(20),
 **concept\_class\_name VARCHAR**(255),
 **concept\_class\_concept\_id INTEGER**)
STORED **AS** PARQUET
;

**CREATE TABLE** concept\_relationship
(
 **concept\_id\_1 INTEGER**,
 **concept\_id\_2 INTEGER**,
 **relationship\_id VARCHAR**(20),
 **valid\_start\_date TIMESTAMP**,
 **valid\_end\_date TIMESTAMP**,
 **invalid\_reason VARCHAR**(1)
)
STORED **AS** PARQUET
;

**CREATE TABLE** relationship
(
 **relationship\_id VARCHAR**(20),
 **relationship\_name VARCHAR**(255),
 **is\_hierarchical VARCHAR**(1),
 **defines\_ancestry VARCHAR**(1),
 **reverse\_relationship\_id VARCHAR**(20),
 **relationship\_concept\_id INTEGER**)
STORED **AS** PARQUET
;

**CREATE TABLE** concept\_synonym
(
 **concept\_id INTEGER**,
 **concept\_synonym\_name VARCHAR**(1000),
 **language\_concept\_id INTEGER**)
STORED **AS** PARQUET
;

**CREATE TABLE** concept\_ancestor
(
 **ancestor\_concept\_id INTEGER**,
 **descendant\_concept\_id INTEGER**,
 **min\_levels\_of\_separation INTEGER**,
 **max\_levels\_of\_separation INTEGER**)
STORED **AS** PARQUET
;

**CREATE TABLE** source\_to\_concept\_map
(
 **source\_code VARCHAR**(50),
 **source\_concept\_id INTEGER**,
 **source\_vocabulary\_id VARCHAR**(20),
 **source\_code\_description VARCHAR**(255),
 **target\_concept\_id INTEGER**,
 **target\_vocabulary\_id VARCHAR**(20),
 **valid\_start\_date TIMESTAMP**,
 **valid\_end\_date TIMESTAMP**,
 **invalid\_reason VARCHAR**(1)
)
STORED **AS** PARQUET
;

**CREATE TABLE** drug\_strength
(
 **drug\_concept\_id INTEGER**,
 **ingredient\_concept\_id INTEGER**,
 **amount\_value FLOAT**,
 **amount\_unit\_concept\_id INTEGER**,
 **numerator\_value FLOAT**,
 **numerator\_unit\_concept\_id INTEGER**,
 **denominator\_value FLOAT**,
 **denominator\_unit\_concept\_id INTEGER**,
 **box\_size INTEGER**,
 **valid\_start\_date TIMESTAMP**,
 **valid\_end\_date TIMESTAMP**,
 **invalid\_reason VARCHAR**(1)
)
STORED **AS** PARQUET
;

**CREATE TABLE** cohort\_definition
(
 **cohort\_definition\_id INTEGER**,
 **cohort\_definition\_name VARCHAR**(255),
 **cohort\_definition\_description** STRING,
 **definition\_type\_concept\_id INTEGER**,
 **cohort\_definition\_syntax** STRING,
 **subject\_concept\_id INTEGER**,
 **cohort\_initiation\_date TIMESTAMP**)
STORED **AS** PARQUET
;

**CREATE TABLE** attribute\_definition
(
 **attribute\_definition\_id INTEGER**,
 **attribute\_name VARCHAR**(255),
 **attribute\_description** STRING,
 **attribute\_type\_concept\_id INTEGER**,
 **attribute\_syntax** STRING
)
STORED **AS** PARQUET
;

**CREATE TABLE** cdm\_source
(
 **cdm\_source\_name VARCHAR**(255),
 **cdm\_source\_abbreviation VARCHAR**(25),
 **cdm\_holder VARCHAR**(255),
 **source\_description** STRING,
 **source\_documentation\_reference VARCHAR**(255),
 **cdm\_etl\_reference VARCHAR**(255),
 **source\_release\_date TIMESTAMP**,
 **cdm\_release\_date TIMESTAMP**,
 **cdm\_version VARCHAR**(10),
 **vocabulary\_version VARCHAR**(20)
)
STORED **AS** PARQUET
;

**CREATE TABLE** metadata
(
 **metadata\_concept\_id INTEGER**,
 **metadata\_type\_concept\_id INTEGER**,
 **name VARCHAR**(250),
 **value\_as\_string** STRING,
 **value\_as\_concept\_id INTEGER**,
 **metadata\_date TIMESTAMP**,
 **metadata\_datetime TIMESTAMP**)
STORED **AS** PARQUET
;

**CREATE TABLE** person
(
 **person\_id INTEGER**,
 **gender\_concept\_id INTEGER**,
 **year\_of\_birth INTEGER**,
 **month\_of\_birth INTEGER**,
 **day\_of\_birth INTEGER**,
 **birth\_datetime TIMESTAMP**,
 **race\_concept\_id INTEGER**,
 **ethnicity\_concept\_id INTEGER**,
 **location\_id INTEGER**,
 **provider\_id INTEGER**,
 **care\_site\_id INTEGER**,
 **person\_source\_value VARCHAR**(50),
 **gender\_source\_value VARCHAR**(50),
 **gender\_source\_concept\_id INTEGER**,
 **race\_source\_value VARCHAR**(50),
 **race\_source\_concept\_id INTEGER**,
 **ethnicity\_source\_value VARCHAR**(50),
 **ethnicity\_source\_concept\_id INTEGER**)
STORED **AS** PARQUET
;

**CREATE TABLE** observation\_period
(
 **observation\_period\_id INTEGER**,
 **person\_id INTEGER**,
 **observation\_period\_start\_date TIMESTAMP**,
 **observation\_period\_end\_date TIMESTAMP**,
 **period\_type\_concept\_id INTEGER**)
STORED **AS** PARQUET
;

**CREATE TABLE** specimen
(
 **specimen\_id INTEGER**,
 **person\_id INTEGER**,
 **specimen\_concept\_id INTEGER**,
 **specimen\_type\_concept\_id INTEGER**,
 **specimen\_date TIMESTAMP**,
 **specimen\_datetime TIMESTAMP**,
 **quantity FLOAT**,
 **unit\_concept\_id INTEGER**,
 **anatomic\_site\_concept\_id INTEGER**,
 **disease\_status\_concept\_id INTEGER**,
 **specimen\_source\_id VARCHAR**(50),
 **specimen\_source\_value VARCHAR**(50),
 **unit\_source\_value VARCHAR**(50),
 **anatomic\_site\_source\_value VARCHAR**(50),
 **disease\_status\_source\_value VARCHAR**(50)
)
STORED **AS** PARQUET
;

**CREATE TABLE** death
(
 **person\_id INTEGER**,
 **death\_date TIMESTAMP**,
 **death\_datetime TIMESTAMP**,
 **death\_type\_concept\_id INTEGER**,
 **cause\_concept\_id INTEGER**,
 **cause\_source\_value VARCHAR**(50),
 **cause\_source\_concept\_id INTEGER**)
STORED **AS** PARQUET
;

**CREATE TABLE** visit\_occurrence
(
 **visit\_occurrence\_id INTEGER**,
 **person\_id INTEGER**,
 **visit\_concept\_id INTEGER**,
 **visit\_start\_date TIMESTAMP**,
 **visit\_start\_datetime TIMESTAMP**,
 **visit\_end\_date TIMESTAMP**,
 **visit\_end\_datetime TIMESTAMP**,
 **visit\_type\_concept\_id INTEGER**,
 **provider\_id INTEGER**,
 **care\_site\_id INTEGER**,
 **visit\_source\_value VARCHAR**(50),
 **visit\_source\_concept\_id INTEGER**,
 **admitting\_source\_concept\_id INTEGER**,
 **admitting\_source\_value VARCHAR**(50),
 **discharge\_to\_concept\_id INTEGER**,
 **discharge\_to\_source\_value VARCHAR**(50),
 **preceding\_visit\_occurrence\_id INTEGER**)
STORED **AS** PARQUET
;

**CREATE TABLE** visit\_detail
(
 **visit\_detail\_id INTEGER**,
 **person\_id INTEGER**,
 **visit\_detail\_concept\_id INTEGER**,
 **visit\_start\_date TIMESTAMP**,
 **visit\_start\_datetime TIMESTAMP**,
 **visit\_end\_date TIMESTAMP**,
 **visit\_end\_datetime TIMESTAMP**,
 **visit\_type\_concept\_id INTEGER**,
 **provider\_id INTEGER**,
 **care\_site\_id INTEGER**,
 **admitting\_source\_concept\_id INTEGER**,
 **discharge\_to\_concept\_id INTEGER**,
 **preceding\_visit\_detail\_id INTEGER**,
 **visit\_source\_value VARCHAR**(50),
 **visit\_source\_concept\_id INTEGER**,
 **admitting\_source\_value VARCHAR**(50),
 **discharge\_to\_source\_value VARCHAR**(50),
 **visit\_detail\_parent\_id INTEGER**,
 **visit\_occurrence\_id INTEGER**)
STORED **AS** PARQUET
;

**CREATE TABLE** procedure\_occurrence
(
 **procedure\_occurrence\_id INTEGER**,
 **person\_id INTEGER**,
 **procedure\_concept\_id INTEGER**,
 **procedure\_date TIMESTAMP**,
 **procedure\_datetime TIMESTAMP**,
 **procedure\_type\_concept\_id INTEGER**,
 **modifier\_concept\_id INTEGER**,
 **quantity INTEGER**,
 **provider\_id INTEGER**,
 **visit\_occurrence\_id INTEGER**,
 **visit\_detail\_id INTEGER**,
 **procedure\_source\_value VARCHAR**(50),
 **procedure\_source\_concept\_id INTEGER**,
 **modifier\_source\_value VARCHAR**(50)
)
STORED **AS** PARQUET
;

**CREATE TABLE** drug\_exposure
(
 **drug\_exposure\_id INTEGER**,
 **person\_id INTEGER**,
 **drug\_concept\_id INTEGER**,
 **drug\_exposure\_start\_date TIMESTAMP**,
 **drug\_exposure\_start\_datetime TIMESTAMP**,
 **drug\_exposure\_end\_date TIMESTAMP**,
 **drug\_exposure\_end\_datetime TIMESTAMP**,
 **verbatim\_end\_date TIMESTAMP**,
 **drug\_type\_concept\_id INTEGER**,
 **stop\_reason VARCHAR**(20),
 **refills INTEGER**,
 **quantity FLOAT**,
 **days\_supply INTEGER**,
 **sig** STRING,
 **route\_concept\_id INTEGER**,
 **lot\_number VARCHAR**(50),
 **provider\_id INTEGER**,
 **visit\_occurrence\_id INTEGER**,
 **visit\_detail\_id INTEGER**,
 **drug\_source\_value VARCHAR**(50),
 **drug\_source\_concept\_id INTEGER**,
 **route\_source\_value VARCHAR**(50),
 **dose\_unit\_source\_value VARCHAR**(50)
)
STORED **AS** PARQUET
;

**CREATE TABLE** device\_exposure
(
 **device\_exposure\_id INTEGER**,
 **person\_id INTEGER**,
 **device\_concept\_id INTEGER**,
 **device\_exposure\_start\_date TIMESTAMP**,
 **device\_exposure\_start\_datetime TIMESTAMP**,
 **device\_exposure\_end\_date TIMESTAMP**,
 **device\_exposure\_end\_datetime TIMESTAMP**,
 **device\_type\_concept\_id INTEGER**,
 **unique\_device\_id VARCHAR**(50),
 **quantity INTEGER**,
 **provider\_id INTEGER**,
 **visit\_occurrence\_id INTEGER**,
 **visit\_detail\_id INTEGER**,
 **device\_source\_value VARCHAR**(100),
 **device\_source\_concept\_id INTEGER**)
STORED **AS** PARQUET
;

**CREATE TABLE** condition\_occurrence
(
 **condition\_occurrence\_id INTEGER**,
 **person\_id INTEGER**,
 **condition\_concept\_id INTEGER**,
 **condition\_start\_date TIMESTAMP**,
 **condition\_start\_datetime TIMESTAMP**,
 **condition\_end\_date TIMESTAMP**,
 **condition\_end\_datetime TIMESTAMP**,
 **condition\_type\_concept\_id INTEGER**,
 **stop\_reason VARCHAR**(20),
 **provider\_id INTEGER**,
 **visit\_occurrence\_id INTEGER**,
 **visit\_detail\_id INTEGER**,
 **condition\_source\_value VARCHAR**(50),
 **condition\_source\_concept\_id INTEGER**,
 **condition\_status\_source\_value VARCHAR**(50),
 **condition\_status\_concept\_id INTEGER**)
STORED **AS** PARQUET
;

**CREATE TABLE** measurement
(
 **measurement\_id INTEGER**,
 **person\_id INTEGER**,
 **measurement\_concept\_id INTEGER**,
 **measurement\_date TIMESTAMP**,
 **measurement\_time VARCHAR**(10),
 **measurement\_datetime TIMESTAMP**,
 **measurement\_type\_concept\_id INTEGER**,
 **operator\_concept\_id INTEGER**,
 **value\_as\_number FLOAT**,
 **value\_as\_concept\_id INTEGER**,
 **unit\_concept\_id INTEGER**,
 **range\_low FLOAT**,
 **range\_high FLOAT**,
 **provider\_id INTEGER**,
 **visit\_occurrence\_id INTEGER**,
 **visit\_detail\_id INTEGER**,
 **measurement\_source\_value VARCHAR**(50),
 **measurement\_source\_concept\_id INTEGER**,
 **unit\_source\_value VARCHAR**(50),
 **value\_source\_value VARCHAR**(50)
)
STORED **AS** PARQUET
;

**CREATE TABLE** note
(
 **note\_id INTEGER**,
 **person\_id INTEGER**,
 **note\_date TIMESTAMP**,
 **note\_datetime TIMESTAMP**,
 **note\_type\_concept\_id INTEGER**,
 **note\_class\_concept\_id INTEGER**,
 **note\_title VARCHAR**(250),
 **note\_text** STRING,
 **encoding\_concept\_id INTEGER**,
 **language\_concept\_id INTEGER**,
 **provider\_id INTEGER**,
 **visit\_occurrence\_id INTEGER**,
 **visit\_detail\_id INTEGER**,
 **note\_source\_value VARCHAR**(50)
)
STORED **AS** PARQUET
;

**CREATE TABLE** note\_nlp
(
 **note\_nlp\_id INTEGER**,
 **note\_id INTEGER**,
 **section\_concept\_id INTEGER**,
 **snippet VARCHAR**(250),
 **"offset" VARCHAR**(250),
 **lexical\_variant VARCHAR**(250),
 **note\_nlp\_concept\_id INTEGER**,
 **note\_nlp\_source\_concept\_id INTEGER**,
 **nlp\_system VARCHAR**(250),
 **nlp\_date TIMESTAMP**,
 **nlp\_datetime TIMESTAMP**,
 **term\_exists VARCHAR**(1),
 **term\_temporal VARCHAR**(50),
 **term\_modifiers VARCHAR**(2000)
)
STORED **AS** PARQUET
;

**CREATE TABLE** observation
(
 **observation\_id INTEGER**,
 **person\_id INTEGER**,
 **observation\_concept\_id INTEGER**,
 **observation\_date TIMESTAMP**,
 **observation\_datetime TIMESTAMP**,
 **observation\_type\_concept\_id INTEGER**,
 **value\_as\_number FLOAT**,
 **value\_as\_string VARCHAR**(60),
 **value\_as\_concept\_id INTEGER**,
 **qualifier\_concept\_id INTEGER**,
 **unit\_concept\_id INTEGER**,
 **provider\_id INTEGER**,
 **visit\_occurrence\_id INTEGER**,
 **visit\_detail\_id INTEGER**,
 **observation\_source\_value VARCHAR**(50),
 **observation\_source\_concept\_id INTEGER**,
 **unit\_source\_value VARCHAR**(50),
 **qualifier\_source\_value VARCHAR**(50)
)
STORED **AS** PARQUET
;

**CREATE TABLE** fact\_relationship
(
 **domain\_concept\_id\_1 INTEGER**,
 **fact\_id\_1 INTEGER**,
 **domain\_concept\_id\_2 INTEGER**,
 **fact\_id\_2 INTEGER**,
 **relationship\_concept\_id INTEGER**)
STORED **AS** PARQUET
;

**CREATE TABLE** location
(
 **location\_id INTEGER**,
 **address\_1 VARCHAR**(50),
 **address\_2 VARCHAR**(50),
 **city VARCHAR**(50),
 **state VARCHAR**(2),
 **zip VARCHAR**(9),
 **county VARCHAR**(20),
 **location\_source\_value VARCHAR**(50)
)
STORED **AS** PARQUET
;

**CREATE TABLE** care\_site
(
 **care\_site\_id INTEGER**,
 **care\_site\_name VARCHAR**(255),
 **place\_of\_service\_concept\_id INTEGER**,
 **location\_id INTEGER**,
 **care\_site\_source\_value VARCHAR**(50),
 **place\_of\_service\_source\_value VARCHAR**(50)
)
STORED **AS** PARQUET
;

**CREATE TABLE** provider
(
 **provider\_id INTEGER**,
 **provider\_name VARCHAR**(255),
 **npi VARCHAR**(20),
 **dea VARCHAR**(20),
 **specialty\_concept\_id INTEGER**,
 **care\_site\_id INTEGER**,
 **year\_of\_birth INTEGER**,
 **gender\_concept\_id INTEGER**,
 **provider\_source\_value VARCHAR**(50),
 **specialty\_source\_value VARCHAR**(50),
 **specialty\_source\_concept\_id INTEGER**,
 **gender\_source\_value VARCHAR**(50),
 **gender\_source\_concept\_id INTEGER**)
STORED **AS** PARQUET
;

**CREATE TABLE** payer\_plan\_period
(
 **payer\_plan\_period\_id INTEGER**,
 **person\_id INTEGER**,
 **payer\_plan\_period\_start\_date TIMESTAMP**,
 **payer\_plan\_period\_end\_date TIMESTAMP**,
 **payer\_concept\_id INTEGER**,
 **payer\_source\_value VARCHAR**(50),
 **payer\_source\_concept\_id INTEGER**,
 **plan\_concept\_id INTEGER**,
 **plan\_source\_value VARCHAR**(50),
 **plan\_source\_concept\_id INTEGER**,
 **sponsor\_concept\_id INTEGER**,
 **sponsor\_source\_value VARCHAR**(50),
 **sponsor\_source\_concept\_id INTEGER**,
 **family\_source\_value VARCHAR**(50),
 **stop\_reason\_concept\_id INTEGER**,
 **stop\_reason\_source\_value INTEGER**,
 **stop\_reason\_source\_concept\_id INTEGER**)
STORED **AS** PARQUET
;

**CREATE TABLE** cost
(
 **cost\_id INTEGER**,
 **cost\_event\_id INTEGER**,
 **cost\_domain\_id VARCHAR**(20),
 **cost\_type\_concept\_id INTEGER**,
 **currency\_concept\_id INTEGER**,
 **total\_charge FLOAT**,
 **total\_cost FLOAT**,
 **total\_paid FLOAT**,
 **paid\_by\_payer FLOAT**,
 **paid\_by\_patient FLOAT**,
 **paid\_patient\_copay FLOAT**,
 **paid\_patient\_coinsurance FLOAT**,
 **paid\_patient\_deductible FLOAT**,
 **paid\_by\_primary FLOAT**,
 **paid\_ingredient\_cost FLOAT**,
 **paid\_dispensing\_fee FLOAT**,
 **payer\_plan\_period\_id INTEGER**,
 **amount\_allowed FLOAT**,
 **revenue\_code\_concept\_id INTEGER**,
 **reveue\_code\_source\_value VARCHAR**(50),
 **drg\_concept\_id INTEGER**,
 **drg\_source\_value VARCHAR**(3)
)
STORED **AS** PARQUET
;

**CREATE TABLE** cohort
(
 **cohort\_definition\_id INTEGER**,
 **subject\_id INTEGER**,
 **cohort\_start\_date TIMESTAMP**,
 **cohort\_end\_date TIMESTAMP**)
STORED **AS** PARQUET
;

**CREATE TABLE** cohort\_attribute
(
 **cohort\_definition\_id INTEGER**,
 **subject\_id INTEGER**,
 **cohort\_start\_date TIMESTAMP**,
 **cohort\_end\_date TIMESTAMP**,
 **attribute\_definition\_id INTEGER**,
 **value\_as\_number FLOAT**,
 **value\_as\_concept\_id INTEGER**)
STORED **AS** PARQUET
;

**CREATE TABLE** drug\_era
(
 **drug\_era\_id INTEGER**,
 **person\_id INTEGER**,
 **drug\_concept\_id INTEGER**,
 **drug\_era\_start\_date TIMESTAMP**,
 **drug\_era\_end\_date TIMESTAMP**,
 **drug\_exposure\_count INTEGER**,
 **gap\_days INTEGER**)
STORED **AS** PARQUET
;

**CREATE TABLE** dose\_era
(
 **dose\_era\_id INTEGER**,
 **person\_id INTEGER**,
 **drug\_concept\_id INTEGER**,
 **unit\_concept\_id INTEGER**,
 **dose\_value FLOAT**,
 **dose\_era\_start\_date TIMESTAMP**,
 **dose\_era\_end\_date TIMESTAMP**)
STORED **AS** PARQUET
;

**CREATE TABLE** condition\_era
(
 **condition\_era\_id INTEGER**,
 **person\_id INTEGER**,
 **condition\_concept\_id INTEGER**,
 **condition\_era\_start\_date TIMESTAMP**,
 **condition\_era\_end\_date TIMESTAMP**,
 **condition\_occurrence\_count INTEGER**)
STORED **AS** PARQUET
;