**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  
;