# Database tables for KPMP Participant Portal

Below are the SQL statements for creating the database tables for the KPMP Participant Portal.

Note that some additional work needs to be done on these as the key structure is not correct. As defined below, normal use will generate duplicate key exceptions. More work is needed to fix the key structure.

/\* This creates the main account table to hold participant accounts. \*/

USE participant

CREATE TABLE accounts (

account\_id varchar(20) NOT NULL PRIMARY KEY,

study\_id varchar(20) NOT NULL,

data\_id varchar(20) NOT NULL,

email\_address varchar(50) NOT NULL,

login\_id varchar(50) NOT NULL,

seed varchar(20),

password\_hash varchar(100),

is\_account\_active char(1) NOT NULL,

account\_type char(1) NOT NULL,

created\_dttm datetime NOT NULL,

registered\_dttm datetime,

upd\_dttm datetime NOT NULL,

upd\_by varchar(50) NOT NULL,

INDEX(login\_id)

);

/\* This table stores registration tokens used to identify and authorize a registering participant. \*/

USE participant

CREATE TABLE tokens (

account\_id varchar(20) NOT NULL,

registration\_token varchar(50) NOT NULL,

token\_dttm datetime NOT NULL,

is\_token\_active char(1) NOT NULL,

PRIMARY KEY(registration\_token, account\_id, is\_token\_active, token\_dttm),

INDEX(account\_id)

);

/\* This table tracks registration and login attempts. Access will be blocked if there

\* are too many failed attempts, requiring a staff member to unlock the account \*/

USE participant

CREATE TABLE participant\_activity (

account\_id varchar(20) NOT NULL,

registration\_attempts int4 NOT NULL,

login\_attempts int4 NOT NULL,

upd\_dttm datetime NOT NULL,

upd\_by varchar(50) NOT NULL,

PRIMARY KEY (account\_id, registration\_attempts, login\_attempts, upd\_dttm)

)

/\* This table tracks user actions such as creating a participant account, deactivating an account, etc. \*/

USE participant

CREATE TABLE user\_audit (

user\_id varchar(50) NOT NULL,

account\_id varchar(20) NOT NULL,

action\_dttm datetime NOT NULL,

action varchar(100) NOT NULL,

PRIMARY KEY(user\_id, account\_id, action\_dttm, action),

INDEX(account\_id)

)

/\* This table tracks major participant activity such as registering their account for the first time

\* or resetting their password. Ordinary login activities are not tracked here. \*/

USE participant

CREATE TABLE participant\_audit (

account\_id varchar(20) NOT NULL,

action\_dttm datetime NOT NULL,

action varchar(100) NOT NULL,

PRIMARY KEY(account\_id, action, action\_dttm)

)