

```
DROP DATABASE IF EXISTS cs122a_sp19;  
CREATE DATABASE cs122a_sp19;  
USE cs122a_sp19;
```

```
CREATE TABLE User(  
    phlid        VARCHAR(8),  
    email        VARCHAR(70) NOT NULL,  
    pswd         CHAR(32) NOT NULL,  
    PRIMARY KEY (phlid)  
);
```

```
CREATE TABLE PHLogger(  
    phlid        VARCHAR(8),  
    name         VARCHAR(50) NOT NULL,  
    address_street VARCHAR(50) NOT NULL,  
    address_city  VARCHAR(20) NOT NULL,  
    address_state CHAR(2) NOT NULL,  
    address_pcode VARCHAR(10) NOT NULL,  
    PRIMARY KEY (phlid),  
    FOREIGN KEY (phlid) REFERENCES User (phlid) ON DELETE CASCADE  
);
```

```
CREATE TABLE Supporter(  
    phlid        VARCHAR(8),  
    phone        VARCHAR(20) NOT NULL,  
    role         VARCHAR(20) NOT NULL,  
    PRIMARY KEY (phlid),  
    FOREIGN KEY (phlid) REFERENCES User (phlid) ON DELETE CASCADE  
);
```

```
CREATE TABLE Contact(  
    phlid        VARCHAR(8),  
    number       VARCHAR(20),  
    PRIMARY KEY (phlid,number),  
    FOREIGN KEY (phlid) REFERENCES PHLogger (phlid) ON DELETE CASCADE  
);
```

```
CREATE TABLE Interest(  
    iname        VARCHAR(20),  
    description   VARCHAR(300) NOT NULL,  
    topic        VARCHAR(20) NOT NULL,  
    date         DATETIME NOT NULL,  
    PRIMARY KEY (iname)
```

);

```
CREATE TABLE Thought(  
  phlid      VARCHAR(8),  
  tnum       INTEGER,  
  text       VARCHAR(300) NOT NULL,  
  date       DATETIME NOT NULL,  
  PRIMARY KEY (phlid,tnum),  
  FOREIGN KEY (phlid) REFERENCES PHLogger (phlid) ON DELETE CASCADE  
);
```

```
CREATE TABLE Event(  
  eid        VARCHAR(8),  
  phlid      VARCHAR(8) NOT NULL,  
  ename      VARCHAR(50) NOT NULL,  
  start      DATETIME NOT NULL,  
  end        DATETIME,  
  origin     VARCHAR(100),  
  PRIMARY KEY (eid),  
  FOREIGN KEY (phlid) REFERENCES PHLogger(phlid) ON DELETE CASCADE  
);
```

```
CREATE TABLE Observation(  
  observation_id  VARCHAR(8),  
  phlid          VARCHAR(8),  
  start          DATETIME NOT NULL,  
  end            DATETIME,  
  PRIMARY KEY (observation_id),  
  FOREIGN KEY (phlid) REFERENCES User(phlid) ON DELETE CASCADE  
);
```

```
CREATE TABLE Observer(  
  observer_id    VARCHAR(8),  
  phlid          VARCHAR(8) NOT NULL,  
  kind           VARCHAR(50) NOT NULL,  
  manufacturer   VARCHAR(50) NOT NULL,  
  model          VARCHAR(50) NOT NULL,  
  software_version VARCHAR(50),  
  PRIMARY KEY (observer_id),  
  FOREIGN KEY (phlid) REFERENCES PHLogger(phlid) ON DELETE CASCADE  
);
```

```
CREATE TABLE Observable(  

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observation_id    VARCHAR(8),
observer_id      VARCHAR(8),
kind             ENUM('observable','heartrate','bloodpressure','picture') NOT NULL,
rate            INTEGER,
diastolic        INTEGER,
systolic         INTEGER,
picture          VARBINARY(65000),
label            VARCHAR(100),
text             VARCHAR(300),
PRIMARY KEY (observation_id),
FOREIGN KEY (observation_id) REFERENCES Observation(observation_id) ON DELETE
CASCADE,
FOREIGN KEY (observer_id) REFERENCES Observer(observer_id) ON DELETE CASCADE
);

```

```

CREATE TABLE PHLG_obs(
  observation_id  VARCHAR(8),
  text           VARCHAR(300) NOT NULL,
  PRIMARY KEY (observation_id),
  FOREIGN KEY (observation_id) REFERENCES Observation(observation_id) ON DELETE
  CASCADE
);

```

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CREATE TABLE About(
  phlid          VARCHAR(8),
  tnum           INTEGER,
  iname          VARCHAR(20),
  PRIMARY KEY (phlid,tnum,iname),
  FOREIGN KEY (phlid,tnum) REFERENCES Thought(phlid,tnum) ON DELETE CASCADE,
  FOREIGN KEY (iname) REFERENCES Interest(iname) ON DELETE CASCADE
);

```

```

CREATE TABLE Member(
  phlid          VARCHAR(8),
  iname          VARCHAR(20),
  PRIMARY KEY (phlid,iname),
  FOREIGN KEY (phlid) REFERENCES PHLogger(phlid) ON DELETE CASCADE,
  FOREIGN KEY (iname) REFERENCES Interest(iname) ON DELETE CASCADE
);

```

```

CREATE TABLE Indicate(
  eid            VARCHAR(8),
  observation_id VARCHAR(8),

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PRIMARY KEY (eid,observation_id),  
FOREIGN KEY (eid) REFERENCES Event(eid) ON DELETE CASCADE,  
FOREIGN KEY (observation_id) REFERENCES Observation(observation_id) ON DELETE  
CASCADE  
);
```