

```
CREATE TABLE User (id INT PRIMARY KEY, name CHAR(20), email CHAR(30))
```

```
CREATE TABLE Trade (id INT, timestamp INT, price DOUBLE, user_id INT, bought?
BOOL,
    PRIMARY KEY(id, user_id),
    FOREIGN KEY (user_id)
        REFERENCES User(id)
    ON DELETE CASCADE)
```

```
CREATE TABLE Account (exchange_name CHAR(20), user_id INT, balance DOUBLE,
    PRIMARY KEY(exchange_name , user_id)
    FOREIGN KEY (exchange_name) REFERENCES Exchange(name)
    FOREIGN KEY (user_id) REFERENCES User(id))
```

```
CREATE TABLE Exchange (name CHAR(20) PRIMARY KEY, website CHAR(30))
```

```
CREATE TABLE Traded_On(exchange_name CHAR(20), commodity_name CHAR(20),
    PRIMARY KEY(exchange_name, commodity_name),
    FOREIGN KEY (exchange_name) REFERENCES Exchange(name),
    FOREIGN KEY (commodity_name) REFERENCES Commodity(name))
```

```
CREATE TABLE Metric (id INT, name CHAR(20), timestamp INT, tradedon_commodity
    CHAR(20), tradedon_exchange CHAR(20),
    PRIMARY KEY(name, tradedon_exchange, id)
    FOREIGN KEY (tradedon_exchange, tradedon_commodity)
        REFERENCES Traded_On(exchange_name, commodity_name)
    ON DELETE CASCADE)
```

```
CREATE TABLE Price (metric_id, INT PRIMARY KEY, metric_name CHAR(20), buy
    DOUBLE, sell DOUBLE, tradedon_commodity CHAR(20), tradedon_exchange
    FOREIGN KEY (metric_id) REFERENCES Metric(id))
```

```
CREATE TABLE Volume (metric_id INT PRIMARY KEY, daily INT, hourly INT,
    FOREIGN KEY (metric_id) REFERENCES Metric(id))
```

```
CREATE TABLE Trend (metric_id INT, value INT, source CHAR(30),
    FOREIGN KEY (metric_id) REFERENCES Metric(id))
```

```
CREATE TABLE Commodity (name CHAR(20) PRIMARY KEY)
```

```
CREATE TABLE Coin (commodity_name CHAR(20) PRIMARY KEY, ICO_value
DOUBLE,
    FOREIGN KEY (commodity_name) REFERENCES Commodity(name))
```

```
CREATE TABLE Stock (commodity_name CHAR (20) PRIMARY KEY, company_site  
CHAR(30)  
FOREIGN KEY (commodity_name) REFERENCES Commodity(name))
```