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Ethereum Blockchain Development Week 9

1 Set up

Open the VM machine and start composer-playground.

Open a terminal.

Download a bna file:

```
wget https://4025.smerf.net/trader9.bna
```

Upload the bna file to composer-playground and start the initialisation function.

2 Static Query on status

Using the trader network, write a query that will extract all participants from the trader registry who have status equal to the string, 'Manager'. Run this as a transaction and display the results in the console.

3 Static Query on an individual

Using the trader network, write a query that will extract a single participant with a particular userID. Execute this query as a transaction and display the results in the console.

4 Dynamic Query on an individual

Using the trader network, write a query that will pass a parameter in a transaction of an individual participant in the trader registry to extract. Execute this query as a transaction and display the results in the console.

5 Static Query on Commodity

Using the trader network, write a query that will extract all assets from the commodity register that have a quantity greater than 125. Run this as a transaction and display the list in the console.

6 Dynamic Query on a Commodity

Using the trader network, write a query that will pass a parameter in a transaction of an individual asset in the commodity register to extract. Run this as a transaction and display the list in the console.

7 Display all commodities owned by an Individual

Using the trader network, write a query that will pass a parameter in a transaction of an individual participant in the trader register. Then extract all the commodities that that trader owns using the query. Run this as a transactions and display the list in the console.

8 Remove Trader

Using the trader network, write a transaction that will remove a trader. All the commodities owned by the removed trader are to be transferred to a nominated trader. Complete this task by writing a query, combining it with a transactions and testing it.