RDF

Here is the RDF output from the rdfConstructionAgent. As shown, each transaction, amount, and person is also appended with a unique hex, so that two identical transaction properties can still be uniquely identified even if they happen to be identical.

It takes 3 example input transactions (first processed by textIngestionAgent and entityExtractionAgent), translates that information info RDF format, and outputs into a .ttl file.

This .ttl file can be used as a standalone output by the user, but it is also used as the input file for the validationAgent and queryInterfaceAgent, detailed further in later slides.

```
@prefix foaf: <http://xmlns.com/foaf/0.1/> .
@prefix ft: <http://financeflow.example/ontology#> .
@prefix schema1: <http://schema.org/> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .

ft:txn-34bc6dfe a ft:Transaction ;
    ft:amount ft:amount-70835e .

ft:txn-d4e6b1cd a ft:Transaction ;
    ft:amount ft:amount-6d26d1 ;
    ft:payer ft:person-becky-3f3aa5,
        ft:person-jacob-4b3c7b,
        ft:person-joseph-b9f2d5 .

ft:txn-f241713b a ft:Transaction ;
    ft:amount ft:amount-abe5fa ;
    ft:payee ft:person-lucas-c3f5cf ;
    ft:payer ft:person-sarah-d84638 ;
    ft:transactionDate "2025-11-21"^^xsd:date .

ft:amount-6d26d1 a schema1:MonetaryAmount ;
    schema1:currency "USD"^^xsd:string ;
    schema1:value 12.0 .

ft:amount-70835e a schema1:MonetaryAmount ;
    schema1:currency "USD"^^xsd:string ;
    schema1:value 5.0 .

ft:amount-abe5fa a schema1:MonetaryAmount ;
    schema1:currency "USD"^^xsd:string ;
    schema1:value 55.5 .

ft:person-becky-3f3aa5 a ft:Person ;
    foaf:name "Becky"^^xsd:string .

ft:person-jacob-4b3c7b a ft:Person ;
    foaf:name "Jacob"^^xsd:string .

ft:person-joseph-b9f2d5 a ft:Person ;
    foaf:name "Joseph"^^xsd:string .

ft:person-lucas-c3f5cf a ft:Person ;
    foaf:name "Lucas"^^xsd:string .

ft:person-sarah-d84638 a ft:Person ;
    foaf:name "Sarah"^^xsd:string .
```