

Q1: How can we trust agents *in the lakehouse*?

**We shouldn't need trust at all.**

Q2: How do we build one that doesn't require trust?

**Two lessons from the databases literature.**

**abstractions**

**data versioning**

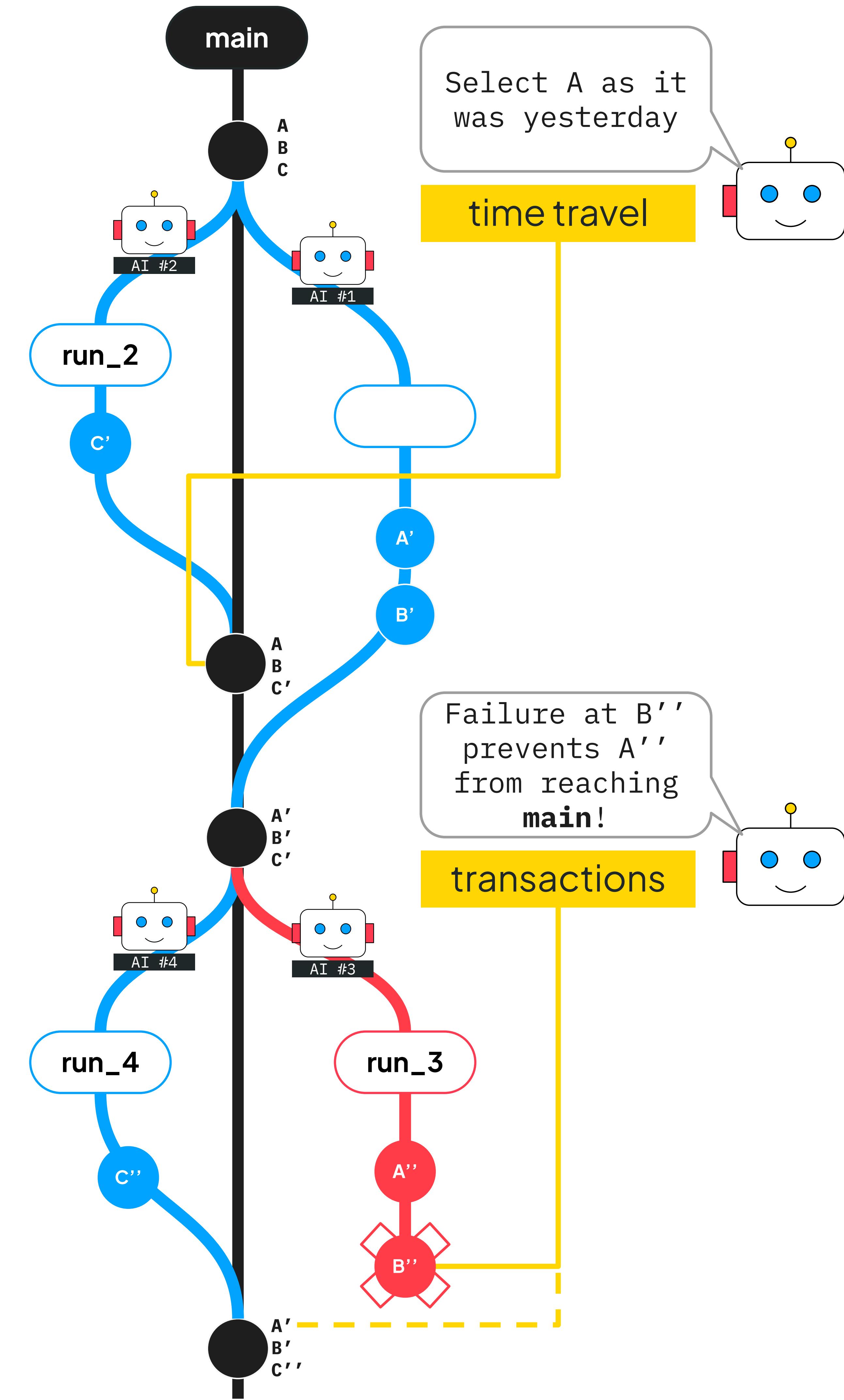
```

FaaS
1  @bauplan.model(materialize=True)
2  @bauplan.python(pip={'polars': '0.8.0'})
3  def parent(
4      input='nyc_taxi',
5      filter="date='2022-12-15'"
6  ):
7      # some code here
8      return parent_table
9
10
11 @bauplan.model(materialize=True)
12 @bauplan.python(pip={'polars': '1.3.0'})
13 def child(input='parent'):
14     # some code here
15     return child_table
16
17
18
19

```

**Declarative I/O**

AI SAFETY  
WITHOUT SAFETY!



| Correctness under concurrency is the hard problem for lakehouse agents.

| Good APIs encourage correct behavior and prevent unsafe actions.

| Once correctness is enforced, governance reduces to API access control.

CONCERN	MODE	ABSTRACTION
Trust	Data	Declarative I/O
Trust	Code	FaaS
Correctness	Data	Transactions
Correctness	Code	PRs

Read the paper

