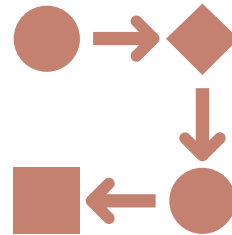

Real-time Streaming Challenge



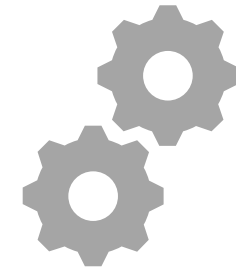
Stream Processing - Steps



Modelling Events



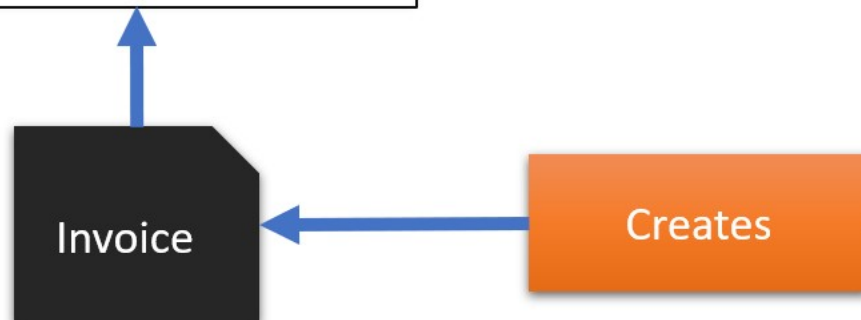
Transporting Events



Processing Events

Identifying & Modeling Events

```
{  
  "InvoiceNumber":123456,  
  "CreatedTime":246744579753,  
  "StoreID":"STR1534",  
  "PosID":"POS364",  
  "CashierID":"OAS898",  
  "CustomerType":"NONPRIME",  
  "CustomerCardNo":"3006055636",  
  "DeliveryType":"HOME-DELIVERY",  
  "DeliveryAddress":{  
    "AddressLine":"7418 Dolor St.",  
    "City":"Nagpur",  
    "State":"Maharastra",  
    "PinCode":"710782",  
    "ContactNumber":"3018429913"  
  },  
  "InvoiceLineItem":{  
    "ItemCode":698,  
    "ItemDescription":"Meat grinder",  
    "ItemPrice":1250,  
    "ItemQty":1  
  }  
}
```



POS Operator

Identifying & Modeling Events

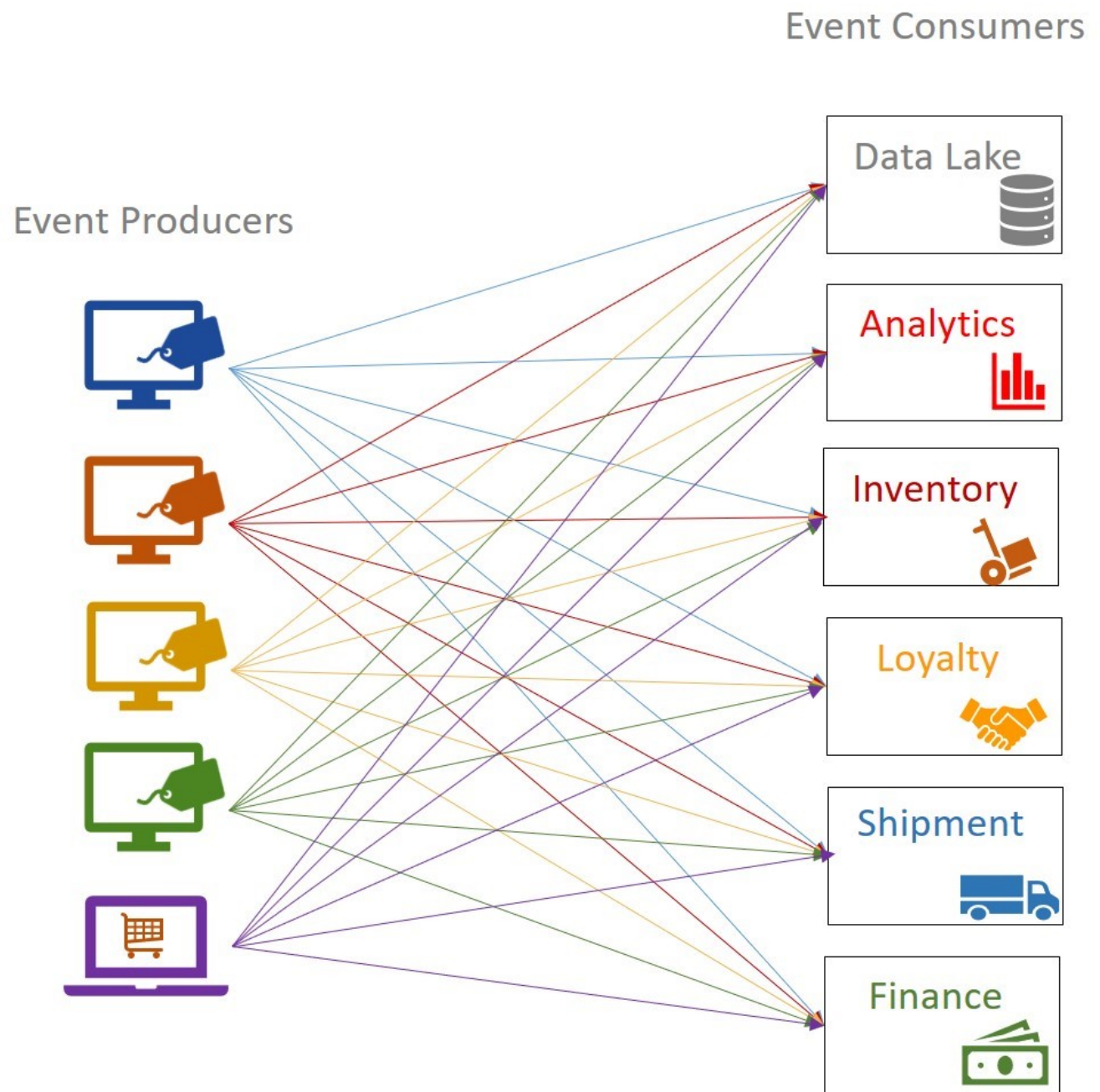
Stock Trade Event

```
{  
  "Symbol": "ACE",  
  "Series": "EQ",  
  "TradedPrice": 98.95,  
  "TradedQty": 35,  
  "tradeTime": 1551774312763,  
  "SalesCondition": 0  
}
```

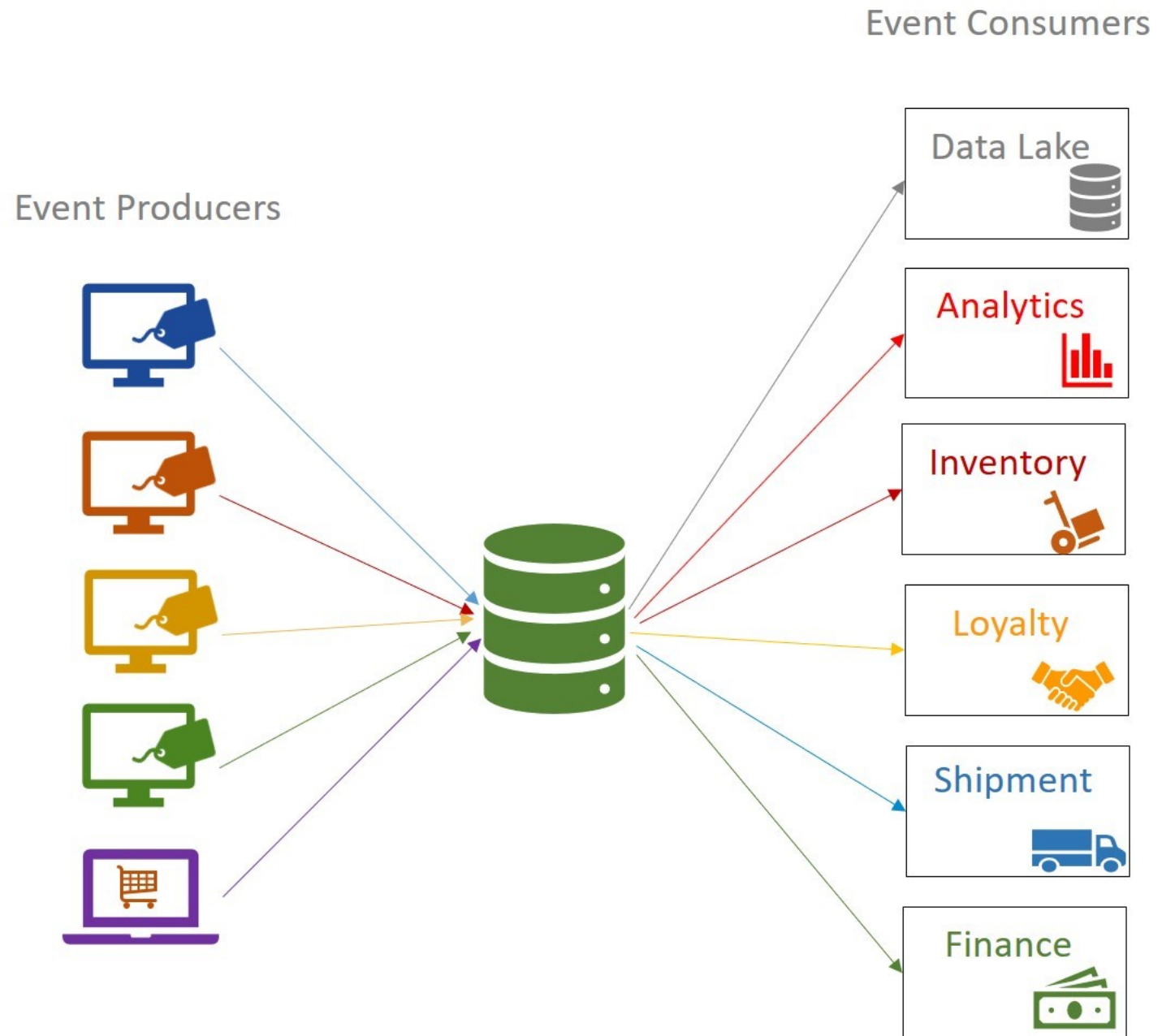
Payment Request Event

```
{  
  "TransactionID": "100001",  
  "CreatedTime": 1550149860000,  
  "SourceAccountID": "131100",  
  "TargetAccountID": "151837",  
  "Amount": 3000  
}
```

Transporting Events



Transporting Events



Evaluating Alternatives

- Decision Criteria
- Alternative Options

