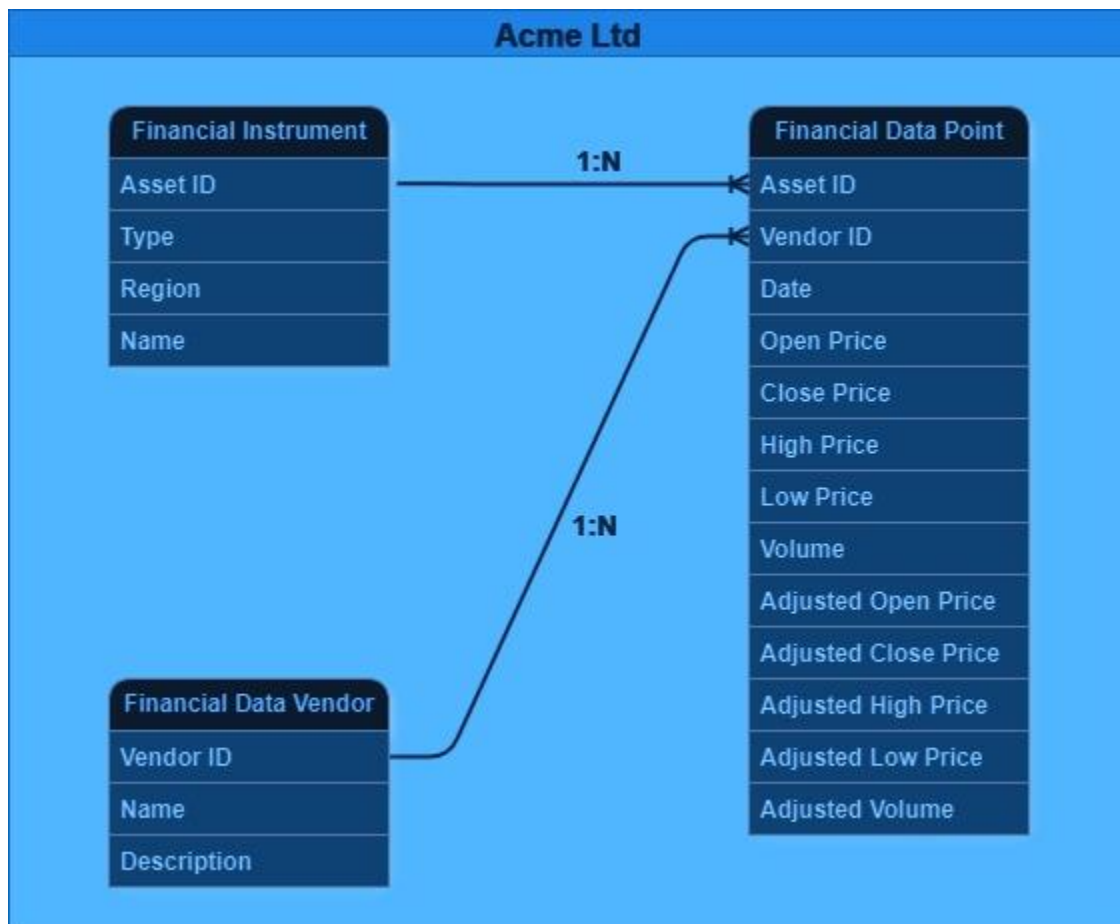


Data Modelling – Acme Ltd

Budurean Marius-Mihai

Conceptual Model



Logical Model

Queries:

```
CREATE TABLE financial_instruments (  
    asset_id UUID PRIMARY KEY,  
    type TEXT,  
    region TEXT,  
    name TEXT  
);
```

```
CREATE TABLE financial_data_points (  
    vendor_id UUID,  
    asset_id UUID,  
    date TIMESTAMP,  
    open_price DECIMAL,  
    close_price DECIMAL,  
    high_price DECIMAL,  
    low_price DECIMAL,  
    volume BIGINT,  
    adjusted_open_price DECIMAL,  
    adjusted_close_price DECIMAL,  
    adjusted_high_price DECIMAL,  
    adjusted_low_price DECIMAL,  
    adjusted_volume BIGINT,  
    PRIMARY KEY (asset_id, date)  
) WITH CLUSTERING ORDER BY (date DESC);
```

```
CREATE TABLE financial_data_vendors (  
    vendor_id UUID PRIMARY KEY,  
    name TEXT,  
    description TEXT,  
    api_details TEXT  
);
```

```
CREATE TABLE financial_data_points_by_vendor (  
    vendor_id UUID,  
    asset_id UUID,  
    date TIMESTAMP,  
    open_price DECIMAL,  
    close_price DECIMAL,  
    high_price DECIMAL,  
    low_price DECIMAL,  
    volume BIGINT,  
    adjusted_open_price DECIMAL,  
    adjusted_close_price DECIMAL,  
    adjusted_high_price DECIMAL,  
    adjusted_low_price DECIMAL,  
    adjusted_volume BIGINT,  
    PRIMARY KEY (vendor_id, asset_id, date)  
) WITH CLUSTERING ORDER BY (asset_id ASC, date DESC);
```

Acme Ltd

financial_instruments			
asset_id	pk,PK	uuid	*
type		text	
region		text	
name		text	

financial_data_vendo...			
vendor_id	pk,PK	uuid	*
name		text	
description		text	
api_details		text	

financial_data_points_by_vendor			
vendor_id	pk,PK	uuid	*
asset_id	pk,CK, ↑	uuid	*
date	pk,CK, ↓	ts	*
open_price		decimal	
close_price		decimal	
high_price		decimal	
low_price		decimal	
volume		bigint	
adjusted_open_price		decimal	
adjusted_close_price		decimal	
adjusted_high_price		decimal	
adjusted_low_price		decimal	
adjusted_volume		bigint	

financial_data_points			
asset_id	pk,PK	uuid	*
date	pk,CK, ↓	ts	*
vendor_id		uuid	
open_price		decimal	
close_price		decimal	
high_price		decimal	
low_price		decimal	
volume		bigint	
adjusted_open_price		decimal	
adjusted_close_price		decimal	
adjusted_high_price		decimal	
adjusted_low_price		decimal	
adjusted_volume		bigint	

