**OLTP Systems Models:**

Schema 1:

Analyzed entities:

Coin\_market :

|  |
| --- |
| Id |
| Symbol |
| Image |
| Current\_value |
| Market\_cap |
| Market\_rank |
| Total\_volume |
| High\_24h |
| **Low\_24h** |
| **Price\_change\_24h** |
| Price\_change\_percent\_24h |
| market\_cap\_change\_24h |
| Market\_cap\_change\_percent\_24h |
| **Ath** |
| **Ath\_change** |
| Ath\_change\_percent |
| Ath\_date |
| Last\_updated |

**Coins:**

|  |
| --- |
| Id |
| Symbol |
| name |

**Asset\_platforms:**

|  |
| --- |
| **Id** |
| **Chain\_identifier** |
| **Name** |
| **Short\_name** |

**Exchanges:**

|  |
| --- |
| **Id** |
| **Name** |
| **Year\_established** |
| **Country** |
| **Description** |
| **url** |
| **Image** |
| **Has\_trading\_incentive** |
| **Trust\_score** |
| **Trust\_rank** |
| **Trade\_volume** |

**Categories:**

|  |
| --- |
| **Id** |
| **name** |

**Categories\_list**

|  |
| --- |
| **Id** |
| **Name** |
| **Market\_cap\_change** |
| **Volume\_24h** |
| **Market\_cap** |
| **Update\_date** |

**Derivative\_exchange\_list:**

|  |
| --- |
| **Id** |
| **name** |

**Derivatives:**

|  |
| --- |
| **Market** |
| **Symbol** |
| **Index\_id** |
| **Price** |
| **Index** |
| **volume** |

**Crypto Trading Schema:**

**Entities Definitions:**

1. **Coins – we have described about list of all the coins with id and symbol**
2. **Category – in this entities, we can define each category type and details, for example what type of coin it will be : like crypto / index etc**
3. **Coin\_category – in this entity we will define coins under each category coin associated with category**
4. **Exchange\_type – in this definition it will have details about what type of exchange it is! Ex: spot, derivative etc.**
5. **Exchange – this entity is about spot exchange details and market value/cap it have ex: coinbase,binance etc**
6. **Derivatives – this definition is on derivative exchange details and symbol,market value,volume etc ex: indexes , btcech etc**
7. **Market – this table will hold daily trading data of each coin ,collected on daily basis with date and volume and current price etc.**
8. **Coin\_exchange – this definition is about coins listed on spot exchanges ex: coins under coinbase ,binance etc**

