

# Data Model (Oracle Nosql)

**Important** : this data model is designed according to the given queries.  
If we change the queries, I think the data model might be changed.

1.

Table name : use

Usr-usrid/name

Usr-usrid/age

Usr-usrid/sex

Usr-usrid/visits (visits is a list which user visit an item)

Usr-usrid/addresses (addresses is a list of addresses of user)

Usr-usrid/friendship (friendship is a list of user's friends)

2.

Table name : shop

Shop-shopid/name

Shop-shopid/url

Shop-shopid/items

3.

Table name : Country

Country/country\_name - user list (users belong to the country\_name)

4. Table name : Sale (item - users list : item is bought by which users)

Sale - itemid/users list

5. Table name : item

Item - itemid/name

Item - itemid/price

Item - itemid/url

Item - itemid/description

Item - itemid/shopid

Item - itemid/orderquantity (orderquantity : this item belong to which order and its quantity)

6. Table name : Order

Order - orderid/date

Order - orderid/totalprice

Order - orderid/usrid

Order - orderid/itemline (itemline is a list of items)

## Schema

```
addresses :
{
  "type": "record",
  "namespace": "avro",
  "name": "Addresses",
  "fields": [
    { "name": "address", "type" :{ "type": "array", "items" : {
      "type": "record",
      "name": "Address",
      "fields": [
        {"name": "street", "type": "string", "default":
""},
        {"name": "city", "type": "string", "default": ""},
        {"name": "country", "type": "string", "default":
""}
      ]
    }}, "default" : []}
  ]
}
```

```
Friendship :
{
  "type": "record",
  "namespace": "avro",
  "name": "Friendship",
  "fields": [
    { "name": "friendship", "type" :{ "type": "array", "items" :
"string"}, "default" : []}
  ]
}
```

```
Item :
{
  "type": "record",
  "namespace": "avro",
  "name": "Item",
  "fields": [
    { "name": "name", "type": "string", "default" : ""},
    { "name": "url", "type": "string", "default" : ""},
    { "name": "price", "type": "double", "default": 0.0},
    { "name": "description", "type": "string", "default": ""},
    { "name": "shopId", "type": "string", "default": ""}
  ]
}
```

itemlines : (list of itemline)

```

{
  "type": "record",
  "namespace": "avro",
  "name": "ItemLines",
  "fields": [
    { "name": "itemline", "type" :{ "type": "array", "items" : {
      "type": "record",
      "name": "ItemLine",
      "fields": [
        {"name": "itemId", "type": "string", "default":
""},
        {"name": "quantity", "type": "int", "default": 0}
      ]
    }}, "default" : []}
  ]
}

itemusers :
{
  "type": "record",
  "namespace": "avro",
  "name": "ItemUsrs",
  "fields": [
    { "name": "itemid", "type": "string", "default" : ""},
    { "name": "userlist", "type" :{ "type": "array", "items" : {
      "type": "record",
      "name": "UsrBuy",
      "fields" : [
        { "name": "name", "type": "string", "default" :
""},
        { "name": "sex", "type": "string", "default" : ""},
        { "name": "age", "type": "int", "default": 0},
        { "name": "buy", "type": "string", "default" : ""}
      ]
    }}, "default" : []}
  ]
}

Order :
{
  "type": "record",
  "namespace": "avro",
  "name": "Ordered",
  "fields": [
    { "name": "usrId", "type": "string", "default" : ""},
    { "name": "date", "type": "string", "default" : ""},
    { "name": "total_price", "type": "double", "default": 0.0}
  ]
}

```

```
}
```

```
OrderQuantity :
```

```
{  
  "type": "record",  
  "namespace": "avro",  
  "name": "OrderQuantitys",  
  "fields": [  
    { "name": "sale", "type" :{ "type": "array", "items" : {  
      "type": "record",  
      "name": "OrderQuantity",  
      "fields" : [  
        { "name": "orderid", "type": "string", "default" :  
        ""},  
        { "name": "quantity", "type": "int", "default" : 0}  
      ]  
    }}, "default" : []}  
  ]  
}
```

```
Shop :
```

```
{  
  "type": "record",  
  "namespace": "avro",  
  "name": "Shop",  
  "fields": [  
    { "name": "shopName", "type": "string", "default" : ""},  
    { "name": "url", "type": "string", "default" : ""}  
  ]  
}
```

```
Users : (list of users)
```

```
{  
  "type": "record",  
  "namespace": "avro",  
  "name": "Usrs",  
  "fields": [  
    { "name": "userlist", "type" :{ "type": "array", "items" : {  
      "type": "record",  
      "name": "Usr",  
      "fields" : [  
        { "name": "name", "type": "string", "default" :  
        ""},  
        { "name": "sex", "type": "string", "default" : ""},  
        { "name": "age", "type": "int", "default": 0}  
      ]  
    }}, "default" : []}  
  ]  
}
```

```
}
```

```
User :
```

```
{
  "type": "record",
  "namespace": "avro",
  "name": "Usr",
  "fields": [
    { "name": "name", "type": "string", "default" : ""},
    { "name": "sex", "type": "string", "default" : ""},
    { "name": "age", "type": "int", "default": 0}
  ]
}
```

```
Visits :
```

```
{
  "type": "record",
  "namespace": "avro",
  "name": "Visits",
  "fields": [
    { "name": "visit", "type" :{ "type": "array", "items" : {
      "type": "record",
      "name": "Visit",
      "fields" : [
        { "name": "itemId", "type": "string", "default":
""},
        { "name": "time", "type": "string", "default": ""},
        { "name": "date", "type": "string", "default": ""},
        { "name": "buy", "type": "string", "default": ""}
      ]
    }}, "default" : []}
  ]
}
```

```
{
  "type": "record",
  "namespace": "avro",
  "name": "Usrs",
  "fields": [
    { "name": "userlist", "type" :{ "type": "array", "items" : {
      "type": "record",
      "namespace": "avro",
      "name": "Item",
      "fields": [
        { "name": "name", "type": "string", "default" : ""},
        { "name": "url", "type": "string", "default" : ""},
        { "name": "price", "type": "double", "default": 0.0},

```

```
        { "name": "description", "type": "string", "default":  
        ""},  
        { "name": "shopId", "type": "string", "default": ""}  
    ],  
    }, "default" : []}  
]  
}
```