

# Data model(HBase)

Create in the 1st order :

1.

Table's name : usr  
 Row key : id\_usr  
 Column Family1 : info : name | sex | age  
 Column Family2 : country : c1 | c2 | ... | cN  
 Column Family3 : address : a1 | a2 | ... | aN

example :

| Row  | Column+Cell                               |
|------|---|
| usr1 | column=info : name="Tianqi"               |
| usr1 | column=info : sex='m'                     |
| usr1 | column=info : age=35                      |
| usr1 | column=country : c1="Fr"                  |
| ...  | ...                                       |
| usr1 | column=country : cN="Ch"                  |
| usr1 | column=address : a1="street1, Paris, Fr"  |
| ...  | ...                                       |
| usr1 | column=address : aN="streetN, Peking, Ch" |

2.

Table's name : shop  
 Row key : id\_shop  
 Column Family : info : name | url  
 Column Family : items

example :

| Row   | Column+Cell                            |
|-------|--|
| shop0 | column=info : name="Fnac"              |
| shop0 | column=info : url="http://A.B.C/shop0" |
| shop0 | column=items : i0='item50'             |
| ...   | ...                                    |
| shop0 | column=items : iN='item100'            |
| ...   | ...                                    |

3.

Table's name : item  
 Row key : id\_item  
 Column Family : info : name | price | url | description

example :

| Row   | Column+Cell                                 |
|-------|---|
| item2 | column=info : name="item1"                  |
| item2 | column=info : price=45.43 (euros)           |
| item2 | column=info : url="http://A.B.C/item2"      |
| item2 | column=info : description="It is very good" |

4. (In this table, we have redundancies but I think it's very convenient to use)

Table's name : friendship  
 Row key : id\_usr1/id\_usr2  
 Column Family : f : friendid

example :

| Row | Column+Cell |
|-----|-------------|
|-----|-------------|

usr1/usr2      column=f : friendid=usr2  
 usr1/usr3      column=f : friendid=usr3

5.

Table's name : visit  
 Row key : id\_item/id\_usr/date/time  
 Column Family : info : buy

example

| Row                            | Column+Cell       |
|--------------------------------|-------------------|
| item99/usr76/2002-9-14/1:34:22 | column=info:buy=y |
| item99/usr74/2000-2-9/10:17:3  | column=info:buy=n |
| ...                            | ...               |

Create in 2nd order

6.

Table's name : itemorder  
 Row key : id\_item/id\_order  
 Column Family1 : info : id\_usr | id\_shop | date\_order | total\_price | quantity

example :

| Row          | Column+Cell                              |
|--------------|--|
| item0/order1 | column=info : id_usr="usr1"              |
| item0/order1 | column=info : id_shop="shop4"            |
| item0/order1 | column=info : year="2002-04-13"          |
| item0/order1 | column=info : total_price=153.54 (euros) |
| item0/order1 | column=info : quantity=50                |

7.

Table's name : orderitem  
 Row key : id\_order/id\_item  
 Column Family1 : info : id\_usr | id\_shop | date\_order | total\_price | quantity

example :

| Row          | Column+Cell                              |
|--------------|--|
| order1/item0 | column=info : id_usr="usr1"              |
| order1/item0 | column=info : id_shop="shop4"            |
| order1/item0 | column=info : year="2002-04-13"          |
| order1/item0 | column=info : total_price=153.54 (euros) |
| order1/item0 | column=info : quantity=50                |