|  |  |  |
| --- | --- | --- |
|  |  |  |

База данных из следующих таблиц:

**customer** (customer\_id, first\_name, last\_name, email, rules, password, book\_id)

**books** (book\_id, name\_books, author, year, store\_id)

**store** (store\_id, city, address, district, postal\_code, phone)

|  |  |
| --- | --- |
| **customer** | |
| 1 | customer\_id |
| 2  3  4  5  6  7 | first\_name  last\_name  email  rules  password  book\_id |

|  |  |
| --- | --- |
| **books** | |
| 1 | book\_id |
| 2  3  4  5 | name\_books  author  year  store\_id |

|  |  |
| --- | --- |
| **store** | |
| 1 | store\_id |
| 2  3  4  5  6 | city  address  district  postal\_code  phone |

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Вертикальный шардинг.

Выполним логическое разбиение одной базы данных на три:

|  |  |  |
| --- | --- | --- |
| DB User | DB Books | DB Store |

|  |  |
| --- | --- |
| customer | |
| 1 | customer\_id |
| 2  3  4  5  6  7 | first\_name  last\_name  email  rules  password  book\_id |

|  |  |
| --- | --- |
| books | |
| 1 | book\_id |
| 2  3  4  5 | name\_books  author  year  store\_id |

|  |  |
| --- | --- |
| store | |
| 1 | store\_id |
| 2  3  4  5  6 | city  address  district  postal\_code  phone |

Горизонтальный шардинг.

DB BooksStore

|  |  |
| --- | --- |
| **customer** | |
| 1 | customer\_id |
| 2  3  4  5  6  7 | first\_name  last\_name  email  rules  password  book\_id |

|  |  |
| --- | --- |
| **books** | |
| 1 | book\_id |
| 2  3  4  5 | name\_books  author  year  store\_id |

|  |  |
| --- | --- |
| **store** | |
| 1 | store\_id |
| 2  3  4  5  6 | city  address  district  postal\_code  phone |

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DB BooksStore

|  |  |
| --- | --- |
| **customer** | |
| 1 | ***customer\_id*** |
| 2  3  4  5  6  7 | ***first\_name***  ***last\_name***  email  rules  password  book\_id |

|  |  |
| --- | --- |
| **books** | |
| 1 | ***book\_id*** |
| 2  3  4  5 | ***name\_books***  ***author***  year  store\_id |

|  |  |
| --- | --- |
| **store** | |
| 1 | ***store\_id*** |
| 2  3  4  5  6 | ***city***  ***address***  district  postal\_code  phone |

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DB BooksStore\_copy

|  |  |
| --- | --- |
| **customer** | |
| 1 | customer\_id |
| 2  3  4  5  6  7 | first\_name  last\_name  ***email***  ***rules***  ***password***  ***book\_id*** |

|  |  |
| --- | --- |
| **books** | |
| 1 | book\_id |
| 2  3  4  5 | name\_books  author  ***year***  ***store\_id*** |

|  |  |
| --- | --- |
| **store** | |
| 1 | store\_id |
| 2  3  4  5  6 | city  address  ***district***  ***postal\_code***  ***phone*** |

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