**CUSTOMER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Phone | SSN | Name | Addr | Acct\_no | Loan\_no |

**ACCOUNT**

|  |  |  |  |
| --- | --- | --- | --- |
| Acct\_no | Balance | Type | Branch\_no |

**LOANS**

|  |  |  |  |
| --- | --- | --- | --- |
| Loan\_no | Amount | Type | Branch\_no |

**BANK\_BRANCH**

|  |  |  |
| --- | --- | --- |
| Branch\_no | Addr | Bank\_code |

**BANK**

|  |  |  |
| --- | --- | --- |
| Code | Name | Addr |

All the sets:

**BANK**

|  |  |  |
| --- | --- | --- |
| Code | Name | Addr |

**BANK\_BRANCH**

|  |  |  |
| --- | --- | --- |
| Addr | Branch\_no | Code |

**ACCOUNT**

|  |  |  |
| --- | --- | --- |
| Acct\_no | Balance | Type |

**LOAN**

|  |  |  |
| --- | --- | --- |
| Loan\_no | Amount | Type |

**CUSTOMER**

|  |  |  |  |
| --- | --- | --- | --- |
| Phone | Ssn | Name | Addr |

ACCOUNT part:

Minimum storage: Add branch\_no and code attribute into ACCOUNT AS FKR, which maps BANCK\_BRANCH branch\_no and code.

Alternative: Add count\_no attribute into BANK\_BRANCH as FKR, which maps COUNT acct\_no

Text

Description automatically generated with medium confidence

LOAN part:

Minimum storage: Add branch\_no and code attribute into LOAN AS FKR, which maps BANCK\_BRANCH branch\_no and code.

Alternative: Add loan\_no attribute into BANK\_BRANCH as FKR, which maps LOAN loan\_no.

CUSTOMER part:

Minimum storage:

Graphical user interface, text, application

Description automatically generated

Alternative: Add acct\_no and loan\_no attribute into CUSTOMER as FKR, and add Ssn into ACCOUNT and LOAN as FKR.

Text

Description automatically generated with medium confidence



**Minimal Storage Translation:**

Diagram

Description automatically generated