SUPPLIER

|  |  |  |
| --- | --- | --- |
| **Bank\_Acount\_Number** | Company\_Name | Contant\_number |

BOOKSTORE

|  |  |  |  |
| --- | --- | --- | --- |
| City | **Address** | Account | Date\_opened |

BOOK

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Title | **ISBN** | FName | Middle\_INIT | LName | Price | Amount\_In\_Stock | TTransaction\_Number |

TRANSACTION

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date | Time | **Transaction\_Number** | EIRD\_Number | Ccustomer\_ID |

EMPLOYEE

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| FNAME | Middle\_INIT | LName | **IRD\_Number** | Contact\_Number | Weekly\_Hours | Hourly\_Rate | BAddress |

CUSTOMER

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Stree\_Number | Street\_Name | Suburb | City | Postcode | **Customer\_ID** | FName | LName | Phone\_Number |

QUALIFICATIONS

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **EIRD\_Number** | **Name** | Date\_Received | Expiry\_Date | EIRD\_Number | ~~Type~~ |

SUPPLIES

|  |  |
| --- | --- |
| **SBank\_Acount\_Number** | **BISBN** |

QUALIFICATIONS\_TYPE

|  |  |  |
| --- | --- | --- |
| **EIRD\_Number** | **QName** | **QType** |

SUPPLIER

|  |  |  |
| --- | --- | --- |
| **Bank\_Account\_Number** | Company\_Name | Contant\_number |

This relation is already a BCNF.

1NF: All attributes values are atomic

2NF: The PK contains a single attribute which is Bank\_Account\_Number, there is nothing to be done.

3NF: Company\_name and Contanct\_number is non-transitively dependent on the primary key Bank\_Account\_Number

BCNF: It is in BCNF

BOOKSTORE

|  |  |  |  |
| --- | --- | --- | --- |
| City | **Address** | Account | Date\_opened |

This relation is alreay a BCNF

1NF: All attribute value are atomic

2NF: The PK contains only one attribute. There is no partial dependency.

3NF: There is no

BOOK

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Title | **ISBN** | FName | Middle\_INIT | LName | Price | Amount\_In\_Stock | TTransaction\_Number |

TRANSACTION

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date | Time | **Transaction\_Number** | EIRD\_Number | Ccustomer\_ID |

EMPLOYEE

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| FNAME | Middle\_INIT | LName | **IRD\_Number** | Contact\_Number | Weekly\_Hours | Hourly\_Rate | BAddress |

CUSTOMER

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Stree\_Number | Street\_Name | Suburb | City | Postcode | **Customer\_ID** | FName | LName | Phone\_Number |

QUALIFICATIONS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **EIRD\_Number** | **Name** | Date\_Received | Expiry\_Date | ~~Type~~ |

SUPPLIES

|  |  |
| --- | --- |
| **SBank\_Acount\_Number** | **BISBN** |

QUALIFICATIONS\_TYPE

|  |  |  |
| --- | --- | --- |
| **EIRD\_Number** | **QName** | **QType** |