

Functional dependencies:

Books:

<u>Book_id</u>	Name	Condition	Weight	Pages
----------------	------	-----------	--------	-------

Fc = {Book_id -> Name, condition, Weight, Pages}
{Book_id}⁺ = {Book_id, Name, Condition, Weight, Pages}.

Authors:

<u>First_name</u>	<u>Last_name</u>	<u>Book_name</u>
-------------------	------------------	------------------

Fc = {First_name, last_name, book_name -> first_name, last_name, book_name}.
{Authors}⁺ = Authors.

Translator:

<u>First_name</u>	<u>Last_name</u>	<u>Book_name</u>
-------------------	------------------	------------------

Fc = {Book_name, First_name, Last_name -> First_name, Last_name, book_name}
{translator}⁺ = translator

Publisher

<u>Brand Name</u>	<u>Year</u>	<u>Book_name</u>
-------------------	-------------	------------------

Fc = {Book_name, Year, Brand_Name -> book_name, year, name}
{publisher}⁺ = publisher

Order

Date	Informed_Date	Customer_Id	<u>Book_Id</u>
------	---------------	-------------	----------------

Fc = {Book_id -> Customer_id, Informed_Date, Date}
{Book_id}⁺ = {Book_id, Customer_id, Informed_Date, Date}

Customer

<u>Customer_id</u>	First name	Last name	Landline phone	cellular
--------------------	------------	-----------	----------------	----------

Fc = {Customer_id -> Cellular; Cellular -> first_name, last_name, landline_phone}.
{Customer_id}⁺ = {Customer_id, first_name, last_name, landline_phone, cellular} = candidate and primary key.

Inventory

<u>Book_id</u>	Date_stored
----------------	-------------

Fc = {Book_id -> date_sorted}

{Book_id}+ = {Book_id, date_sorted}

Store Purchase

<u>book_id</u>	Price_paid	purchase_date
----------------	------------	---------------

Fc = {Book_id -> price_paid, purchase_date}

{Book_id}+ = {Book_id, price_paid, purchase_date}.

Book Sale

<u>book_id</u>	deal_id	delivery_id	customer_id	book_price
----------------	---------	-------------	-------------	------------

Fc = {Book_id -> deal_id, delivery_id, customer_id, book_price}

{book_id}+ = {book_id, deal_id, delivery_id, customer_id, book_price}

Deals

<u>deal_id</u>	total_pay	method_pay	date
----------------	-----------	------------	------

Fc = {Deal_id -> total_pay, method_pay, date}.

{deal_id}+ = {deal_id, total_pay, method_pay, date}

Delivery

<u>delivery_id</u>	company	shipping_method	status	date
--------------------	---------	-----------------	--------	------

Fc = {Delivery_id → company, shipping_method, status, date}.

{delivery_id}+ = {delivery_id, company, shipping_method, status, date}

Delivery address

<u>delivery_id</u>	city	street	number
--------------------	------	--------	--------

Fc = {delivery_id → city, street, number }

{delivery_id} + = {delivery_id, city, street, number }

Payments

<u>date</u>	rent	water	electric	cellular	Landline_phone	variants
-------------	------	-------	----------	----------	----------------	----------

Fc = {Date -> rent, water, electric, cellular, landline_phone, variants}
 {date}+ = {date, rent, water, electric, cellular, landline_phone, variants}

Sales

<u>emp_id</u>	<u>deal_id</u>
---------------	----------------

Deal_id -> emp_id
 {deal_id}+ = {deal_id, emp_id}

Employees

<u>emp_id</u>	city	street	First_name	last_name	cellular
---------------	------	--------	------------	-----------	----------

Fc = {emp_id-> cellular; cellular -> city, street, first_name, last_name}
 {emp_id}+ = {emp_id, city, street, first_name, last_name, cellular}

Salaries

<u>emp_id</u>	<u>date</u>	total_hours
---------------	-------------	-------------

Fc = {Emp_id, date -> total_hours}
 {emp_id, date}+ = {emp_id, date, total_hours}

shipping_rate

<u>shipping_method</u>	pay_rate
------------------------	----------

Fc = { shipping_method -> pay_rate }
 {shipping_method}+ = {shipping_method, pay_rate}

warehouse

<u>book_id</u>	<u>date_in</u>	date_out
----------------	----------------	----------

Fc = { book_id -> date_in, date_out }
 { book_id }+ = { book_id, date_in, date_out }