МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ РОССИЙСКОЙ ФЕДЕРАЦИИ

Федеральное Государственное Автономное Образовательное Учреждение Высшего Образования "Национальный Исследовательский Университет Итмо"

##### ФАКУЛЬТЕТ ПИиКТ

**ЛАБОРАТОРНАЯ РАБОТА №1**

### по дисциплине

### «БАЗЫ ДАННЫХ»

### Вариант № 173385

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Оглавление

[Текст задания 3](#_Toc23675)

[Описание предметной области 3](#_Toc26403)

[Список сущностей 3](#_Toc26616)

[Инфологическая модель 3](#_Toc23806)

[Даталогическая модель 4](#_Toc18825)

[Реализация модели 4](#_Toc19077)

[Вывод 5](#_Toc14184)

## Текст задания

1. На основе предложенной предметной области (текста) составить ее описание. Из полученного описания выделить сущности, их атрибуты и связи.
2. Составить инфологическую модель.
3. Составить даталогическую модель. При описании типов данных для атрибутов должны использоваться типы из СУБД PostgreSQL.
4. Реализовать даталогическую модель в PostgreSQL. При описании и реализации даталогической модели должны учитываться ограничения целостности, которые характерны для полученной предметной области.
5. Заполнить созданные таблицы тестовыми данными.

## Описание предметной области

### Текст задания

Грант схватил бинокль и высунул локти в открытое окно электромобиля. Он внимательно разглядывал продолговатое грузовое судно. Было так темно, что Грант видел практически один силуэт; затем вдруг на корабле зажглись огоньки, они ярко засияли в темно-багровых сумерках.

### Описание

Существует порт, в котором находятся люди включая Гранта. У порта есть название и название города, в котором он находится, список людей и кораблей, находящихся там. У корабля есть его название, тип и серийный номер. Люди, в свою очередь, могут держать предметы (но несколько людей не может держать один и тот же предмет), смотреть на корабли в порту. На кораблях есть фонари, которые горят в определённое время суток. У времени суток есть время начала и конца.

## Список сущностей

**Стержневые:**

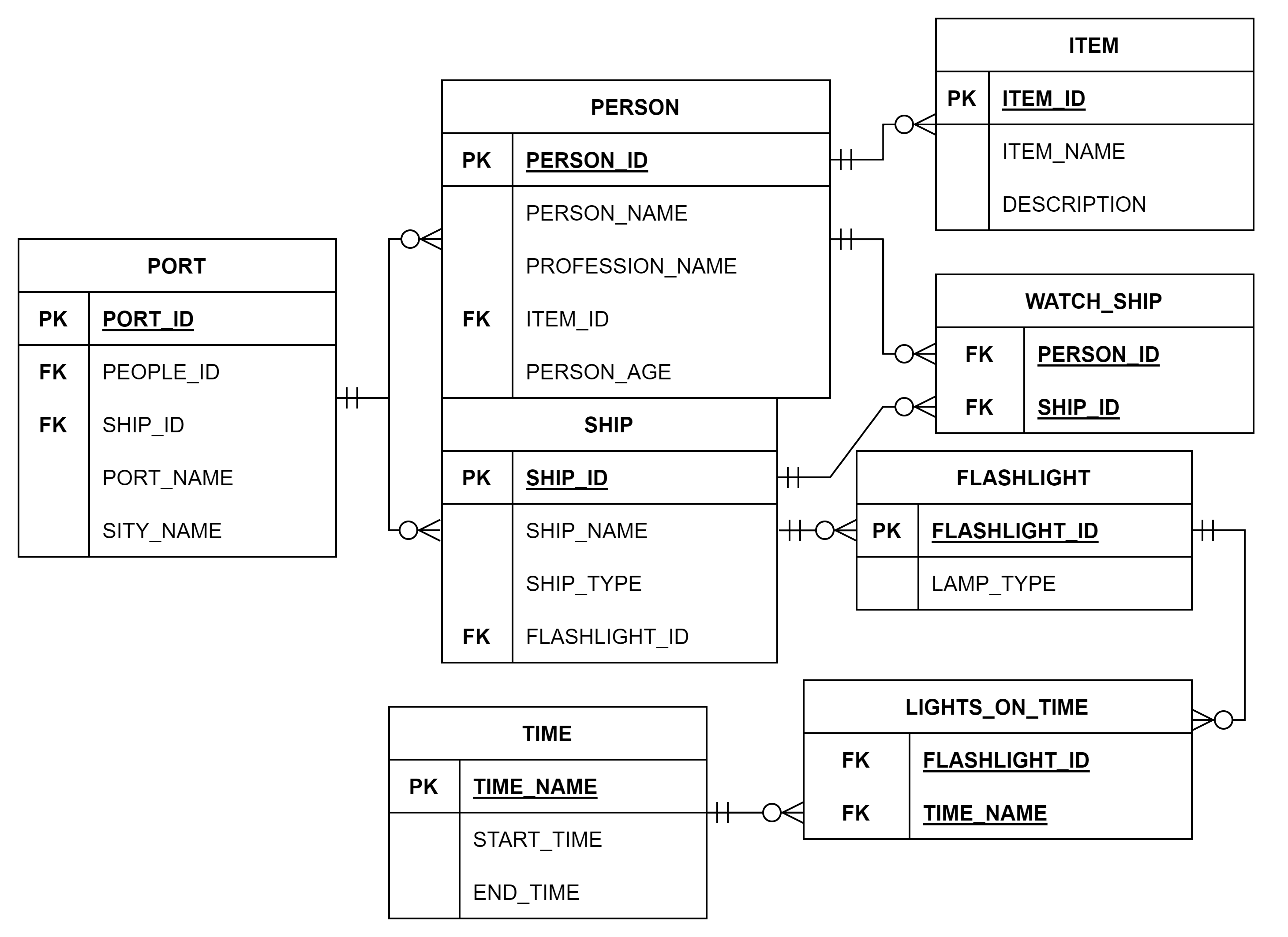
* Порт - название порта; название города; люди и корабли, которые в нем находятся.
* Корабль - название; тип; серийный номер; фонари на корабле
* Предмет - название; описание
* Человек - имя; возраст; профессия; предмет, который у него в руках
* Фонарь - тип лампы
* Время суток - название

**Ассоциативные:**

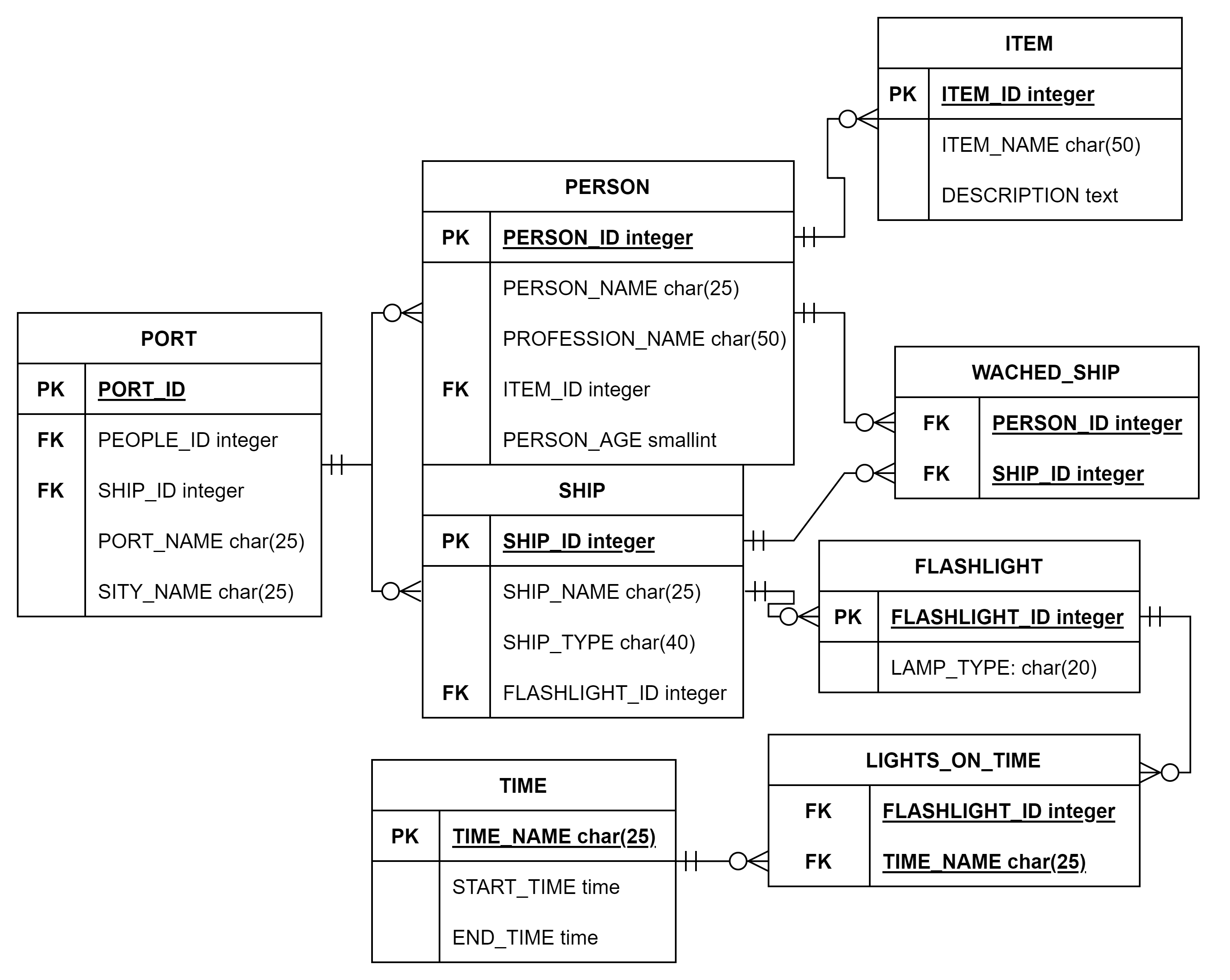
* Видеть корабли - кто видит; какие корабли
* Время включение фонаря - фонарь; время суток

## Инфологическая модель

%3CmxGraphModel%3E%3Croot%3E%3CmxCell%20id%3D%220%22%2F%3E%3CmxCell%20id%3D%221%22%20parent%3D%220%22%2F%3E%3CmxCell%20id%3D%222%22%20value%3D%22FLASHLIGHT%22%20style%3D%22shape%3Dtable%3BstartSize%3D30%3Bcontainer%3D1%3Bcollapsible%3D1%3BchildLayout%3DtableLayout%3BfixedRows%3D1%3BrowLines%3D0%3BfontStyle%3D1%3Balign%3Dcenter%3BresizeLast%3D1%3BstrokeColor%3Ddefault%3BstrokeWidth%3D1%3B%22%20vertex%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20x%3D%22865%22%20y%3D%22345%22%20width%3D%22190%22%20height%3D%2290%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%223%22%20value%3D%22%22%20style%3D%22shape%3DtableRow%3Bhorizontal%3D0%3BstartSize%3D0%3BswimlaneHead%3D0%3BswimlaneBody%3D0%3BfillColor%3Dnone%3Bcollapsible%3D0%3BdropTarget%3D0%3Bpoints%3D%5B%5B0%2C0.5%5D%2C%5B1%2C0.5%5D%5D%3BportConstraint%3Deastwest%3Btop%3D0%3Bleft%3D0%3Bright%3D0%3Bbottom%3D1%3BstrokeColor%3Ddefault%3BstrokeWidth%3D1%3B%22%20vertex%3D%221%22%20parent%3D%222%22%3E%3CmxGeometry%20y%3D%2230%22%20width%3D%22190%22%20height%3D%2230%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%224%22%20value%3D%22PK%22%20style%3D%22shape%3DpartialRectangle%3Bconnectable%3D0%3BfillColor%3Dnone%3Btop%3D0%3Bleft%3D0%3Bbottom%3D0%3Bright%3D0%3BfontStyle%3D1%3Boverflow%3Dhidden%3BstrokeColor%3Ddefault%3BstrokeWidth%3D1%3B%22%20vertex%3D%221%22%20parent%3D%223%22%3E%3CmxGeometry%20width%3D%2235%22%20height%3D%2230%22%20as%3D%22geometry%22%3E%3CmxRectangle%20width%3D%2235%22%20height%3D%2230%22%20as%3D%22alternateBounds%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%225%22%20value%3D%22FLASHLIGHT\_ID%20integer%22%20style%3D%22shape%3DpartialRectangle%3Bconnectable%3D0%3BfillColor%3Dnone%3Btop%3D0%3Bleft%3D0%3Bbottom%3D0%3Bright%3D0%3Balign%3Dleft%3BspacingLeft%3D6%3BfontStyle%3D5%3Boverflow%3Dhidden%3BstrokeColor%3Ddefault%3BstrokeWidth%3D1%3B%22%20vertex%3D%221%22%20parent%3D%223%22%3E%3CmxGeometry%20x%3D%2235%22%20width%3D%22155%22%20height%3D%2230%22%20as%3D%22geometry%22%3E%3CmxRectangle%20width%3D%22155%22%20height%3D%2230%22%20as%3D%22alternateBounds%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%226%22%20value%3D%22%22%20style%3D%22shape%3DtableRow%3Bhorizontal%3D0%3BstartSize%3D0%3BswimlaneHead%3D0%3BswimlaneBody%3D0%3BfillColor%3Dnone%3Bcollapsible%3D0%3BdropTarget%3D0%3Bpoints%3D%5B%5B0%2C0.5%5D%2C%5B1%2C0.5%5D%5D%3BportConstraint%3Deastwest%3Btop%3D0%3Bleft%3D0%3Bright%3D0%3Bbottom%3D1%3BstrokeColor%3Ddefault%3BstrokeWidth%3D1%3B%22%20vertex%3D%221%22%20parent%3D%222%22%3E%3CmxGeometry%20y%3D%2260%22%20width%3D%22190%22%20height%3D%2230%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%227%22%20value%3D%22%22%20style%3D%22shape%3DpartialRectangle%3Bconnectable%3D0%3BfillColor%3Dnone%3Btop%3D0%3Bleft%3D0%3Bbottom%3D0%3Bright%3D0%3BfontStyle%3D1%3Boverflow%3Dhidden%3BstrokeColor%3Ddefault%3BstrokeWidth%3D1%3B%22%20vertex%3D%221%22%20parent%3D%226%22%3E%3CmxGeometry%20width%3D%2235%22%20height%3D%2230%22%20as%3D%22geometry%22%3E%3CmxRectangle%20width%3D%2235%22%20height%3D%2230%22%20as%3D%22alternateBounds%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%228%22%20value%3D%22LAMP\_TYPE%3A%20char(20)%22%20style%3D%22shape%3DpartialRectangle%3Bconnectable%3D0%3BfillColor%3Dnone%3Btop%3D0%3Bleft%3D0%3Bbottom%3D0%3Bright%3D0%3Balign%3Dleft%3BspacingLeft%3D6%3BfontStyle%3D0%3Boverflow%3Dhidden%3BstrokeColor%3Ddefault%3BstrokeWidth%3D1%3B%22%20vertex%3D%221%22%20parent%3D%226%22%3E%3CmxGeometry%20x%3D%2235%22%20width%3D%22155%22%20height%3D%2230%22%20as%3D%22geometry%22%3E%3CmxRectangle%20width%3D%22155%22%20height%3D%2230%22%20as%3D%22alternateBounds%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3C%2Froot%3E%3C%2FmxGraphModel%3E



## Даталогическая модель



## Реализация модели

<https://github.com/nentu/DataBase-lab1/blob/main/script.sql>

%3CmxGraphModel%3E%3Croot%3E%3CmxCell%20id%3D%220%22%2F%3E%3CmxCell%20id%3D%221%22%20parent%3D%220%22%2F%3E%3CmxCell%20id%3D%222%22%20value%3D%22PORT%22%20style%3D%22shape%3Dtable%3BstartSize%3D30%3Bcontainer%3D1%3Bcollapsible%3D1%3BchildLayout%3DtableLayout%3BfixedRows%3D1%3BrowLines%3D0%3BfontStyle%3D1%3Balign%3Dcenter%3BresizeLast%3D1%3B%22%20vertex%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20x%3D%22390%22%20y%3D%22210%22%20width%3D%22180%22%20height%3D%22180%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%223%22%20value%3D%22%22%20style%3D%22shape%3DtableRow%3Bhorizontal%3D0%3BstartSize%3D0%3BswimlaneHead%3D0%3BswimlaneBody%3D0%3BfillColor%3Dnone%3Bcollapsible%3D0%3BdropTarget%3D0%3Bpoints%3D%5B%5B0%2C0.5%5D%2C%5B1%2C0.5%5D%5D%3BportConstraint%3Deastwest%3Btop%3D0%3Bleft%3D0%3Bright%3D0%3Bbottom%3D1%3B%22%20vertex%3D%221%22%20parent%3D%222%22%3E%3CmxGeometry%20y%3D%2230%22%20width%3D%22180%22%20height%3D%2230%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%224%22%20value%3D%22PK%22%20style%3D%22shape%3DpartialRectangle%3Bconnectable%3D0%3BfillColor%3Dnone%3Btop%3D0%3Bleft%3D0%3Bbottom%3D0%3Bright%3D0%3BfontStyle%3D1%3Boverflow%3Dhidden%3B%22%20vertex%3D%221%22%20parent%3D%223%22%3E%3CmxGeometry%20width%3D%2240%22%20height%3D%2230%22%20as%3D%22geometry%22%3E%3CmxRectangle%20width%3D%2240%22%20height%3D%2230%22%20as%3D%22alternateBounds%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%225%22%20value%3D%22PORT\_ID%22%20style%3D%22shape%3DpartialRectangle%3Bconnectable%3D0%3BfillColor%3Dnone%3Btop%3D0%3Bleft%3D0%3Bbottom%3D0%3Bright%3D0%3Balign%3Dleft%3BspacingLeft%3D6%3BfontStyle%3D5%3Boverflow%3Dhidden%3B%22%20vertex%3D%221%22%20parent%3D%223%22%3E%3CmxGeometry%20x%3D%2240%22%20width%3D%22140%22%20height%3D%2230%22%20as%3D%22geometry%22%3E%3CmxRectangle%20width%3D%22140%22%20height%3D%2230%22%20as%3D%22alternateBounds%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%226%22%20value%3D%22%22%20style%3D%22shape%3DtableRow%3Bhorizontal%3D0%3BstartSize%3D0%3BswimlaneHead%3D0%3BswimlaneBody%3D0%3BfillColor%3Dnone%3Bcollapsible%3D0%3BdropTarget%3D0%3Bpoints%3D%5B%5B0%2C0.5%5D%2C%5B1%2C0.5%5D%5D%3BportConstraint%3Deastwest%3Btop%3D0%3Bleft%3D0%3Bright%3D0%3Bbottom%3D0%3B%22%20vertex%3D%221%22%20parent%3D%222%22%3E%3CmxGeometry%20y%3D%2260%22%20width%3D%22180%22%20height%3D%2230%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%227%22%20value%3D%22FK%22%20style%3D%22shape%3DpartialRectangle%3Bconnectable%3D0%3BfillColor%3Dnone%3Btop%3D0%3Bleft%3D0%3Bbottom%3D0%3Bright%3D0%3Beditable%3D1%3Boverflow%3Dhidden%3BfontStyle%3D1%22%20vertex%3D%221%22%20parent%3D%226%22%3E%3CmxGeometry%20width%3D%2240%22%20height%3D%2230%22%20as%3D%22geometry%22%3E%3CmxRectangle%20width%3D%2240%22%20height%3D%2230%22%20as%3D%22alternateBounds%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%228%22%20value%3D%22PEOPLE\_ID%20integer%22%20style%3D%22shape%3DpartialRectangle%3Bconnectable%3D0%3BfillColor%3Dnone%3Btop%3D0%3Bleft%3D0%3Bbottom%3D0%3Bright%3D0%3Balign%3Dleft%3BspacingLeft%3D6%3Boverflow%3Dhidden%3B%22%20vertex%3D%221%22%20parent%3D%226%22%3E%3CmxGeometry%20x%3D%2240%22%20width%3D%22140%22%20height%3D%2230%22%20as%3D%22geometry%22%3E%3CmxRectangle%20width%3D%22140%22%20height%3D%2230%22%20as%3D%22alternateBounds%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%229%22%20value%3D%22%22%20style%3D%22shape%3DtableRow%3Bhorizontal%3D0%3BstartSize%3D0%3BswimlaneHead%3D0%3BswimlaneBody%3D0%3BfillColor%3Dnone%3Bcollapsible%3D0%3BdropTarget%3D0%3Bpoints%3D%5B%5B0%2C0.5%5D%2C%5B1%2C0.5%5D%5D%3BportConstraint%3Deastwest%3Btop%3D0%3Bleft%3D0%3Bright%3D0%3Bbottom%3D0%3B%22%20vertex%3D%221%22%20parent%3D%222%22%3E%3CmxGeometry%20y%3D%2290%22%20width%3D%22180%22%20height%3D%2230%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2210%22%20value%3D%22FK%22%20style%3D%22shape%3DpartialRectangle%3Bconnectable%3D0%3BfillColor%3Dnone%3Btop%3D0%3Bleft%3D0%3Bbottom%3D0%3Bright%3D0%3Beditable%3D1%3Boverflow%3Dhidden%3BfontStyle%3D1%22%20vertex%3D%221%22%20parent%3D%229%22%3E%3CmxGeometry%20width%3D%2240%22%20height%3D%2230%22%20as%3D%22geometry%22%3E%3CmxRectangle%20width%3D%2240%22%20height%3D%2230%22%20as%3D%22alternateBounds%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2211%22%20value%3D%22SHIP\_ID%20integer%22%20style%3D%22shape%3DpartialRectangle%3Bconnectable%3D0%3BfillColor%3Dnone%3Btop%3D0%3Bleft%3D0%3Bbottom%3D0%3Bright%3D0%3Balign%3Dleft%3BspacingLeft%3D6%3Boverflow%3Dhidden%3B%22%20vertex%3D%221%22%20parent%3D%229%22%3E%3CmxGeometry%20x%3D%2240%22%20width%3D%22140%22%20height%3D%2230%22%20as%3D%22geometry%22%3E%3CmxRectangle%20width%3D%22140%22%20height%3D%2230%22%20as%3D%22alternateBounds%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2212%22%20value%3D%22%22%20style%3D%22shape%3DtableRow%3Bhorizontal%3D0%3BstartSize%3D0%3BswimlaneHead%3D0%3BswimlaneBody%3D0%3BfillColor%3Dnone%3Bcollapsible%3D0%3BdropTarget%3D0%3B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## Вывод

При выполнении лабораторной работы были изучены правила построения

инфологической и даталогической моделей сущностей, по которым была реализована

база данных с помощью SQL.