Министерство образования Республики Беларусь

Учреждение образования «Белорусский государственный университет

информатики и радиоэлектроники»

Факультет компьютерных систем и сетей

Кафедра вычислительных машин систем и сетей

Дисциплина: Базы данных

**ОТЧЕТ**

по контрольной работе

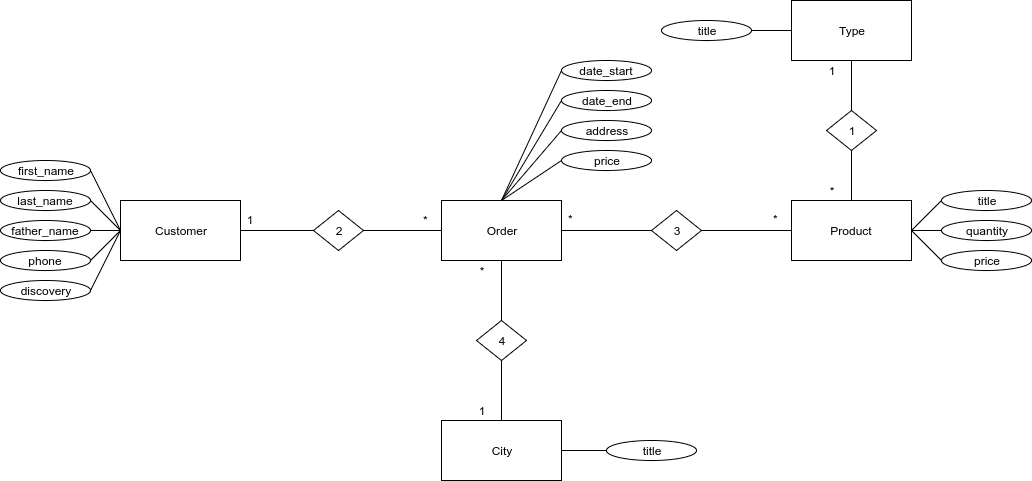
Студент: гр. 450504

Павец Н. К.

Руководитель: старший преподаватель

Калабухов Е. В.

ER - схема



Создание таблиц

DROP TABLE CITIES;

CREATE TABLE CITIES

(

ID NUMBER(9) NOT NULL,

TITLE VARCHAR2(255) NOT NULL,

CONSTRAINT CITY\_TITLE\_UK UNIQUE (TITLE),

CONSTRAINT CITY\_ID\_PK PRIMARY KEY (ID)

);

DROP TABLE CUSTOMERS;

CREATE TABLE CUSTOMERS

(

ID NUMBER(9) NOT NULL,

FIRST\_NAME VARCHAR2(255) NOT NULL,

LAST\_NAME VARCHAR2(255) NOT NULL,

FATHER\_NAME VARCHAR2(255) NOT NULL,

PHONE VARCHAR2(255) NOT NULL,

DISCOVERY NUMBER(9),

CONSTRAINT CUSTOMER\_ID\_PK PRIMARY KEY (ID)

);

DROP TABLE P\_TYPES;

CREATE TABLE P\_TYPES

(

ID NUMBER(9) NOT NULL,

TITLE VARCHAR2(255) NOT NULL,

CONSTRAINT P\_TYPES\_UK UNIQUE (TITLE),

CONSTRAINT P\_TYPES\_ID\_PK PRIMARY KEY (ID)

);

DROP TABLE PRODUCTS;

CREATE TABLE PRODUCTS

(

ID NUMBER(9) NOT NULL,

TITLE VARCHAR2(255) NOT NULL,

QUATITY NUMBER(9),

PRICE NUMBER(9, 2),

P\_TYPE\_ID NUMBER(9) NOT NULL,

CONSTRAINT PRODUCT\_ID\_PK PRIMARY KEY (ID),

CONSTRAINT PRODUCT\_P\_TYPE\_FK FOREIGN KEY (P\_TYPE\_ID) REFERENCES P\_TYPES

);

DROP TABLE ORDERS;

CREATE TABLE ORDERS

(

ID NUMBER(9) NOT NULL,

DATE\_START DATE,

DATE\_END DATE,

ADDRESS VARCHAR2(255) NOT NULL,

PRICE NUMBER(9, 2) NOT NULL,

CUSTOMER\_ID NUMBER(9) NOT NULL,

CITY\_ID NUMBER(9) NOT NULL,

CONSTRAINT ORDER\_ID\_PK PRIMARY KEY (ID),

CONSTRAINT ORDER\_CUSTOMER\_FK FOREIGN KEY (CUSTOMER\_ID) REFERENCES CUSTOMERS,

CONSTRAINT ORDER\_CITY\_FK FOREIGN KEY (CITY\_ID) REFERENCES CITIES

);

DROP TABLE ORDER\_PRODUCT;

CREATE TABLE ORDER\_PRODUCT

(

ID NUMBER(9) NOT NULL,

ORDER\_ID NUMBER(9) NOT NULL,

PRODUCT\_ID NUMBER(9) NOT NULL,

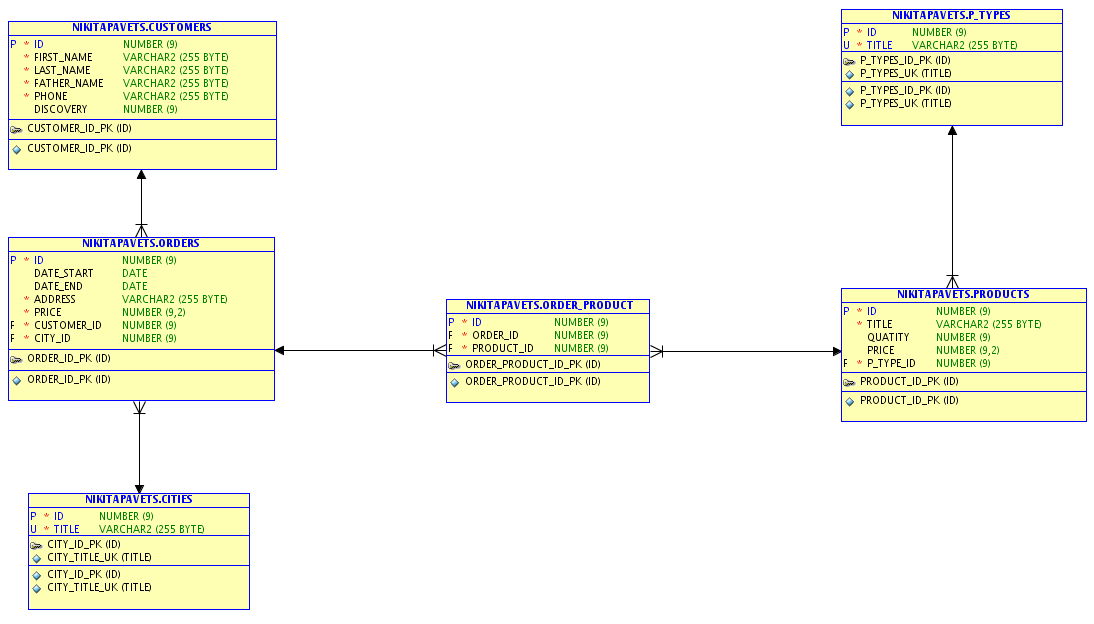
CONSTRAINT ORDER\_PRODUCT\_ID\_PK PRIMARY KEY (ID),

CONSTRAINT ORDER\_PRODUCT\_ORDER\_FK FOREIGN KEY (ORDER\_ID) REFERENCES ORDERS,

CONSTRAINT ORDER\_PRODUCT\_PRODUCT\_FK FOREIGN KEY (PRODUCT\_ID) REFERENCES PRODUCTS

);

Реляционная модель



Запрос

SELECT DISTINCT cus.first\_name, cus.last\_name, cus.discovery

FROM customers cus

INNER JOIN orders ord

ON ord.customer\_id = cus.id

ORDER BY cus.discovery DESC;

