# ЦЕЛЬ РАБОТЫ

Изучение работы оператора SELECT языка SQL, а так же изучение возможностей обработки данных с помощью агрегатных функций языка SQL.

# ПОСТАНОВКА ЗАДАЧИ

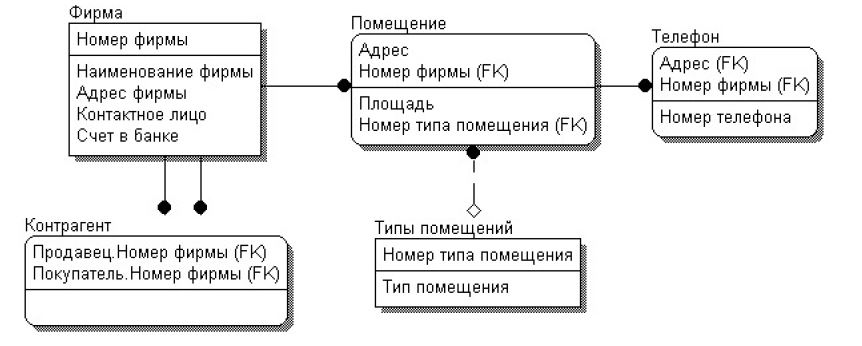


Рисунок 1 – Структура базы данных для варианта задания №15

CREATE TABLE Firm\_info\_db.FIRM\_INFO (

id INT(6) UNSIGNED PRIMARY KEY NOT NULL,

adress VARCHAR(15) NOT NULL,

name VARCHAR(15),

contacts\_dep VARCHAR(10),

deposit\_num INT(10) UNSIGNED

)

CREATE TABLE firm\_INFO\_DB.PLACEMENT(

adress VARCHAR(15) NOT NULL,

firm\_id INT(6) UNSIGNED NOT NULL,

square FLOAT(4,2) UNSIGNED,

type\_placement TINYINT(2) UNSIGNED,

PRIMARY KEY(adress, firm\_id)

)

CREATE TABLE FIRM\_INFO\_DB.PHONE(

adress VARCHAR(15) NOT NULL,

firm\_id INT(6) UNSIGNED NOT NULL,

tel\_nubmer INT(11) UNSIGNED,

PRIMARY KEY(adress, firm\_id)

)

CREATE TABLE FIRM\_INFO\_DB.PET\_SIDE(

seller\_id INT(6) UNSIGNED NOT NULL,

purchaser\_id INT(6) UNSIGNED NOT NULL,

PRIMARY KEY (seller\_id, purchaser\_id)

)

CREATE TABLE FIRM\_INFO\_DB.TYPE\_PLACEMENT(

type\_placement\_num TINYINT(2) UNSIGNED NOT NULL PRIMARY KEY,

type\_Plaement VARCHAR(10) NOT NULL

)

ALTER TABLE FIRM\_INFO\_DB.PLACEMENT ADD CONSTRAINT ref\_to\_firm\_id FOREIGN KEY (firm\_id) REFERENCES FIRM\_INFO\_DB.FIRM\_INFO(id) ON DELETE CASCADE ON UPDATE CASCADE

ALTER TABLE FIRM\_INFO\_DB.PHONE ADD CONSTRAINT ref\_placement\_adress FOREIGN KEY (adress, firm\_id) REFERENCES PLACEMENT(adress,firm\_id) ON DELETE NO ACTION ON UPDATE CASCADE

ALTER TABLE FIRM\_INFO\_DB.PET\_SIDE ADD CONSTRAINT ref\_to\_firm\_info FOREIGN KEY (seller\_id, purchaser\_id) REFERENCES FIRM\_INFO(id) ON DELETE CASCADE ON UPDATE CASCADE

ALTER TABLE FIRM\_INFO\_DB.PET\_SIDE ADD CONSTRAINT ref\_sell\_to\_firm\_info FOREIGN KEY (seller\_id) REFERENCES FIRM\_INFO(id) ON DELETE CASCADE ON UPDATE CASCADE, ADD CONSTRAINT ref\_buy\_to\_firm\_info FOREIGN KEY (purchaser\_id) REFERENCES FIRM\_INFO(id) ON DELETE CASCADE ON UPDATE CASCADE

ALTER TABLE PLACEMENT ADD CONSTRAINT ref\_to\_type\_placement\_type\_num FOREIGN KEY (type\_placement) REFERENCES TYPE\_PLACEMENT(type\_placement\_num) ON DELETE NO ACTION ON UPDATE CASCADE