**Министерство науки и высшего образования Российской Федерации**

Федеральное государственное автономное образовательное учреждение

высшего профессионального образования

**«НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ**

**ТОМСКИЙ ПОЛИТЕХНИЧЕСКИЙ УНИВЕРСИТЕТ»**

Наименование школы: ИШИТР

Наименование отделения: ОИТ

Наименование направления: Программная инженерия

**Лабораторная работа №9**

**по дисциплине: «Современные концепции организации баз данных»**

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**Задание**

Создать представление на основе трёх таблиц с условием отбора данных.

CREATE TABLE doctor (

id\_doctor INTEGER NOT NULL,

first\_name CHAR(20) NOT NULL,

last\_name CHAR(20) NOT NULL,

phone\_number INTEGER NOT NULL

);

ALTER TABLE doctor ADD CONSTRAINT doctor\_pk PRIMARY KEY (id\_doctor);

CREATE TABLE specialization (

id\_spec INTEGER NOT NULL,

title CHAR(25) NOT NULL

);

ALTER TABLE specialization ADD CONSTRAINT specialization\_pk PRIMARY KEY (id\_spec);

CREATE TABLE doctor\_specialization (

doctor\_id\_doctor INTEGER NOT NULL,

specialization\_id\_spec INTEGER NOT NULL

);

ALTER TABLE doctor\_specialization ADD CONSTRAINT doctor\_spec\_doctor\_fk FOREIGN KEY (doctor\_id\_doctor)

REFERENCES doctor (id\_doctor);

ALTER TABLE doctor\_specialization ADD CONSTRAINT doctor\_spec\_spec\_fk FOREIGN KEY (specialization\_id\_spec)

REFERENCES specialization (id\_spec);

INSERT INTO doctor (id\_doctor, first\_name, last\_name, phone\_number)

VALUES (53675, 'Александр', 'Дзидзария', 999379893);

INSERT INTO doctor (id\_doctor, first\_name, last\_name, phone\_number)

VALUES (53676, 'Андрей', 'Емельянов', 999379894);

INSERT INTO doctor (id\_doctor, first\_name, last\_name, phone\_number)

VALUES (53677, 'Сергей', 'Савельев', 999379895);

INSERT INTO doctor (id\_doctor, first\_name, last\_name, phone\_number)

VALUES (53678, 'Семён', 'Тереньтьев', 999379896);

INSERT INTO doctor (id\_doctor, first\_name, last\_name, phone\_number)

VALUES (53679, 'Пётр', 'Иванов', 999379897);

INSERT INTO specialization (id\_spec, title)

VALUES (8374674, 'Хирург');

INSERT INTO specialization (id\_spec, title)

VALUES (8478354, 'Терапевт');

INSERT INTO specialization (id\_spec, title)

VALUES (8478357, 'Невролог');

INSERT INTO specialization (id\_spec, title)

VALUES (8478359, 'Лор');

INSERT INTO specialization (id\_spec, title)

VALUES (8478394, 'Офтальмолог');

INSERT INTO doctor\_specialization (doctor\_id\_doctor, specialization\_id\_spec)

VALUES (53675, 8478354);

INSERT INTO doctor\_specialization (doctor\_id\_doctor, specialization\_id\_spec)

VALUES (53675, 8478357);

INSERT INTO doctor\_specialization (doctor\_id\_doctor, specialization\_id\_spec)

VALUES (53676, 8478354);

INSERT INTO doctor\_specialization (doctor\_id\_doctor, specialization\_id\_spec)

VALUES (53676, 8478359);

INSERT INTO doctor\_specialization (doctor\_id\_doctor, specialization\_id\_spec)

VALUES (53677, 8374674);

INSERT INTO doctor\_specialization (doctor\_id\_doctor, specialization\_id\_spec)

VALUES (53677, 8478357);

INSERT INTO doctor\_specialization (doctor\_id\_doctor, specialization\_id\_spec)

VALUES (53677, 8478394);

INSERT INTO doctor\_specialization (doctor\_id\_doctor, specialization\_id\_spec)

VALUES (53678, 8374674);

INSERT INTO doctor\_specialization (doctor\_id\_doctor, specialization\_id\_spec)

VALUES (53678, 8478354);

INSERT INTO doctor\_specialization (doctor\_id\_doctor, specialization\_id\_spec)

VALUES (53679, 8478394);

CREATE VIEW vieww AS SELECT id\_doctor, id\_spec, doctor\_id\_doctor FROM doctor\_specialization

INNER JOIN specialization ON id\_spec = specialization\_id\_spec

INNER JOIN doctor ON id\_doctor = doctor\_id\_doctor

WHERE first\_name LIKE '%А%';

SELECT \* FROM vieww;

