

Лабораторная работа 8

```
CREATE TABLE STUDENTS_2(  
    SNUM INTEGER PRIMARY KEY,  
    SFAM CHARACTER(20),  
    SIMA CHARACTER(20),  
    SOTCH CHARACTER(20),  
    STIP MONEY DEFAULT 10  
);
```

```
ALTER TABLE STUDENTS_2  
    ADD COURS INTEGER;
```

```
ALTER TABLE STUDENTS_2  
    ADD TELEPHONE CHARACTER(15);
```

```
ALTER TABLE STUDENTS_2  
    DROP COURS;
```

```
ALTER TABLE STUDENTS_2
```

DROP TELEPHONE;

CREATE TYPE TELEPHONE AS (

area_code INTEGER,

number VARCHAR(20)

);

**CREATE DOMAIN TELEPHONE AS VARCHAR(20) NOT
NULL;**

CREATE INDEX SFAM_IN ON "STUDENTS"("SFAM");

**CREATE TABLE "PREDMET_2"(
 "PNUM" SMALLINT,**

"PNAME" CHARACTER(20),

"TNUM" INTEGER,

"HOURS" SMALLINT,

"COURS" SMALLINT

);

```
CREATE TABLE "TEACHERS_2"(  
    "TNUM" INTEGER,  
    "TFAM" CHARACTER(20),  
    "TIMA" CHARACTER(20),  
    "TOTCH" CHARACTER(15),  
    "TDATE" DATE  
);
```

```
CREATE TABLE "USP_2"(  
    "UNUM" INTEGER,  
    "OCENKA" SMALLINT,  
    "UPDATE" DATE,  
    "SNUM" INTEGER,  
    "PNUM" SMALLINT  
);
```

```
ALTER TABLE "PREDMET_2"  
ADD CHECK("COURS" BETWEEN 1 AND 5);
```

```
ALTER TABLE "PREDMET_2"  
ADD PRIMARY KEY ("PNUM");
```

```
ALTER TABLE "TEACHERS_2"  
ADD PRIMARY KEY ("TNUM");
```

```
ALTER TABLE "STUDENTS_2"  
ADD PRIMARY KEY ("SNUM");
```

```
ALTER TABLE "USP_2"  
ADD PRIMARY KEY ("UNUM");
```

```
INSERT INTO "STUDENTS_2"  
SELECT *  
FROM "STUDENTS"  
WHERE "SFAM" IN  
(SELECT "SFAM"  
FROM "STUDENTS"
```

```
INNER JOIN "USP" USING ("SNUM")  
GROUP BY "SFAM"  
HAVING COUNT(*) = COUNT(CASE WHEN "OCENKA" = 5  
THEN 1 END));
```

```
INSERT INTO "TEACHERS_2"  
SELECT *  
FROM "TEACHERS"
```

```
INSERT INTO "USP_2"  
SELECT *  
FROM "USP"
```

```
INSERT INTO "PREDMET_2"  
SELECT *  
FROM "PREDMET"
```

```
INSERT INTO "STUDENTS_2"  
SELECT * FROM "STUDENTS"
```

EXCEPT

SELECT * FROM "STUDENTS_2";

ALTER TABLE "USP_2"

ADD CONSTRAINT usp_students_2

FOREIGN KEY ("SNUM")

REFERENCES "STUDENTS_2" ("SNUM")

ON DELETE CASCADE;

ALTER TABLE "USP_2"

ADD CONSTRAINT usp_predmet_2

FOREIGN KEY ("PNUM")

REFERENCES "PREDMET_2" ("PNUM")

ON DELETE CASCADE;

ALTER TABLE "PREDMET_2"

ADD CONSTRAINT predmet_teachers_2

FOREIGN KEY ("TNUM")

REFERENCES "TEACHERS_2" ("TNUM")

ON DELETE CASCADE;

ALTER TABLE "USP_2"

**ADD CONSTRAINT CHECK_DATE CHECK("UPDATE" <
NOW());**

ALTER TABLE "PREDMET_2"

**ADD CONSTRAINT CHECK_NAME CHECK("PNAME" IN
(**'Физика', 'Химия',
'Математика', 'Философия', 'Экономика'**));**

