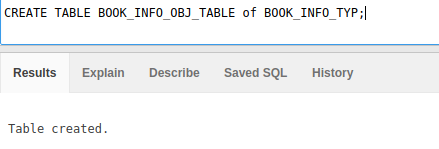
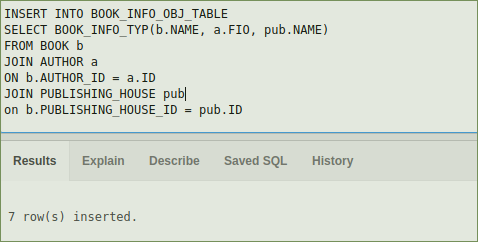
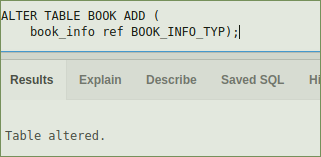
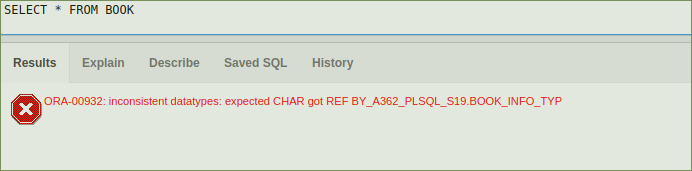


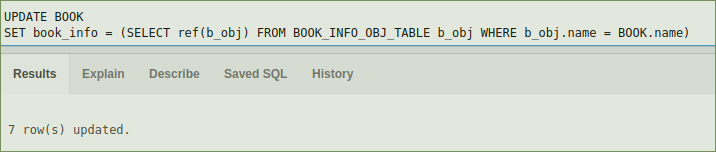
CREATE TABLE BOOK\_INFO\_OBJ\_TABLE of BOOK\_INFO\_TYP;

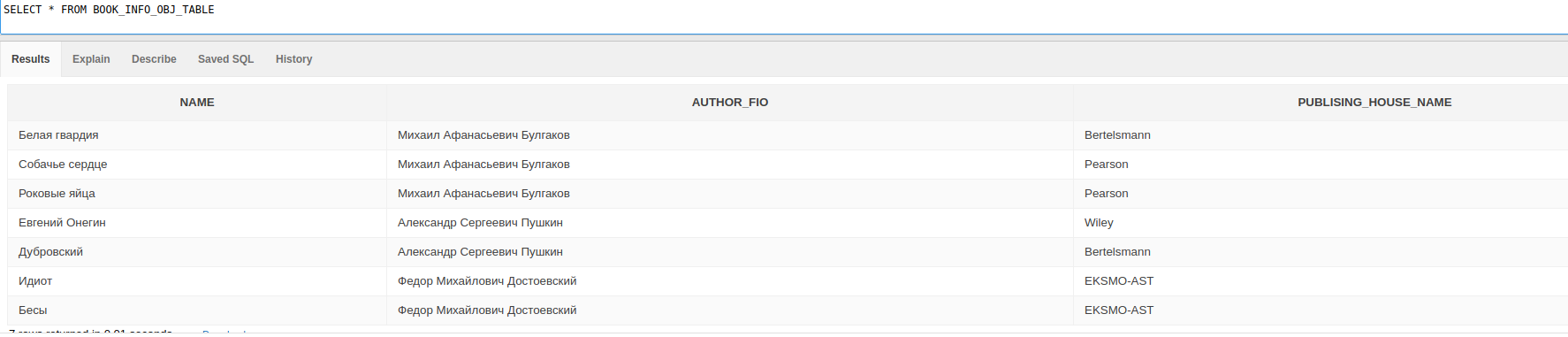


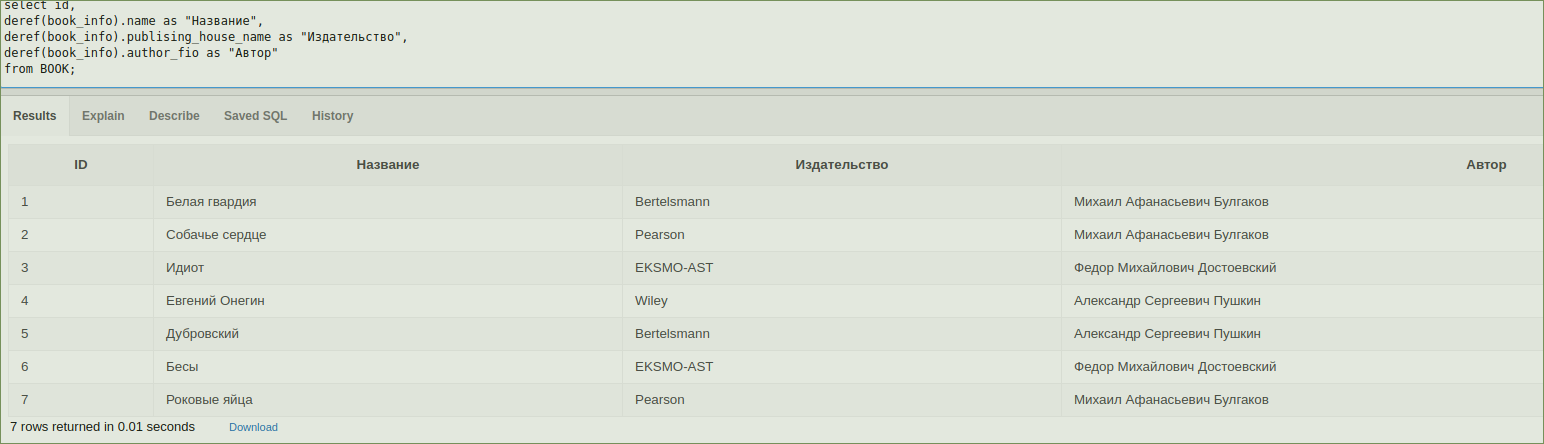


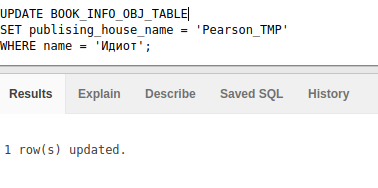


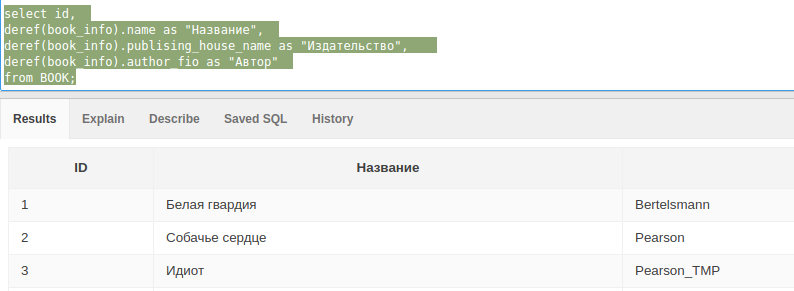


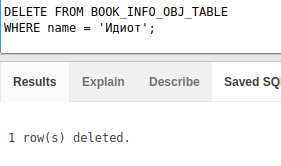


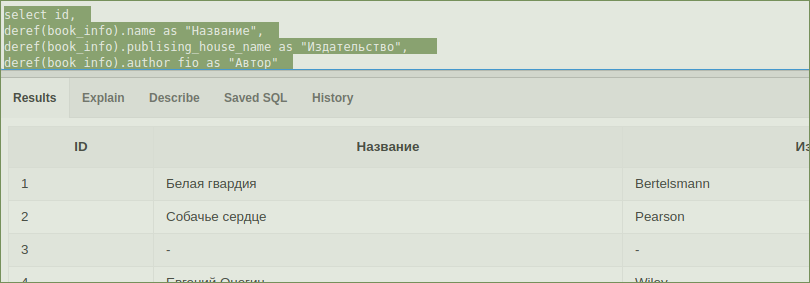












DROP TABLE BOOK\_INFO\_OBJ\_TABLE;

DROP TABLE BOOK\_INFO\_REF\_TABLE;

CREATE OR REPLACE TYPE BOOK\_INFO\_TYP AS OBJECT

(name VARCHAR(60),

author\_fio VARCHAR(60),

publising\_house\_name VARCHAR(60)

);

CREATE TABLE BOOK\_INFO\_OBJ\_TABLE of BOOK\_INFO\_TYP;

SELECT \* FROM BOOK

INSERT INTO BOOK\_INFO\_OBJ\_TABLE

SELECT BOOK\_INFO\_TYP(b.NAME, a.FIO, pub.NAME)

FROM BOOK b

JOIN AUTHOR a

ON b.AUTHOR\_ID = a.ID

JOIN PUBLISHING\_HOUSE pub

on b.PUBLISHING\_HOUSE\_ID = pub.ID

ALTER TABLE BOOK ADD (

book\_info ref BOOK\_INFO\_TYP);

UPDATE BOOK

SET book\_info = (SELECT ref(b\_obj) FROM BOOK\_INFO\_OBJ\_TABLE b\_obj WHERE b\_obj.name = BOOK.name)

SELECT \* FROM BOOK\_INFO\_OBJ\_TABLE

select id,

deref(book\_info).name as "Название",

deref(book\_info).publising\_house\_name as "Издательство",

deref(book\_info).author\_fio as "Автор"

from BOOK;

UPDATE BOOK\_INFO\_OBJ\_TABLE

SET publising\_house\_name = 'Pearson\_TMP'

WHERE name = 'Идиот';

DELETE FROM BOOK\_INFO\_OBJ\_TABLE

WHERE name = 'Идиот';