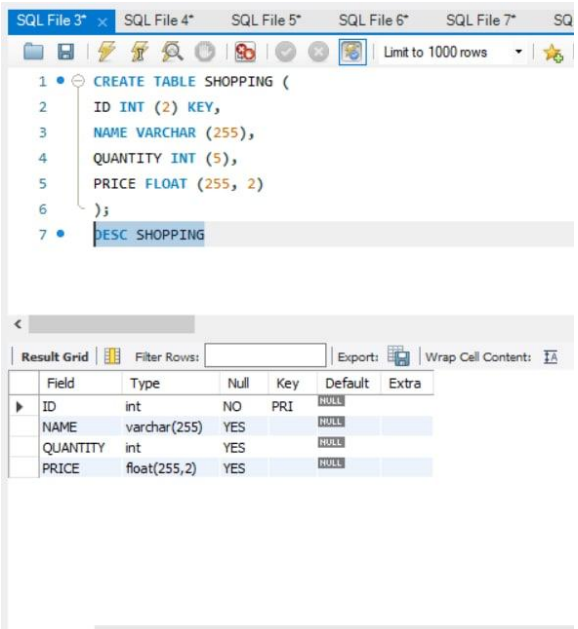
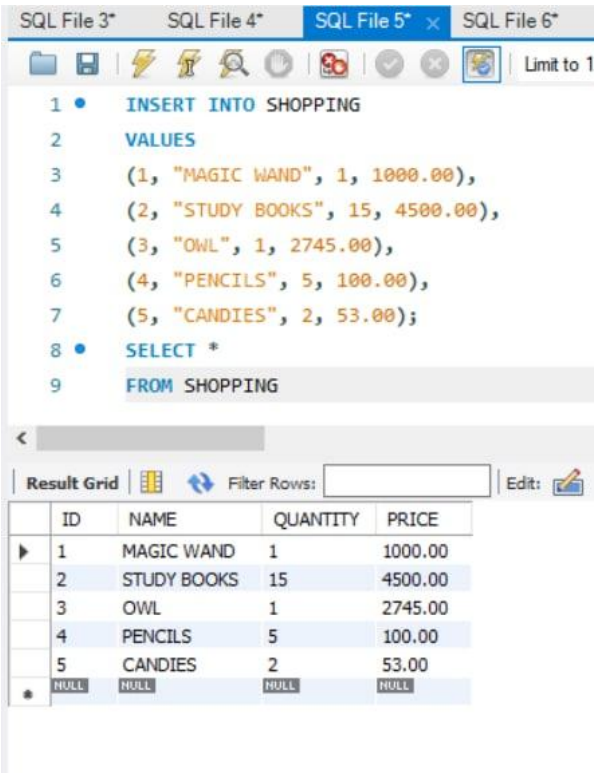
Creating and connecting tables + looking for specific info, using aggregate functions etc.

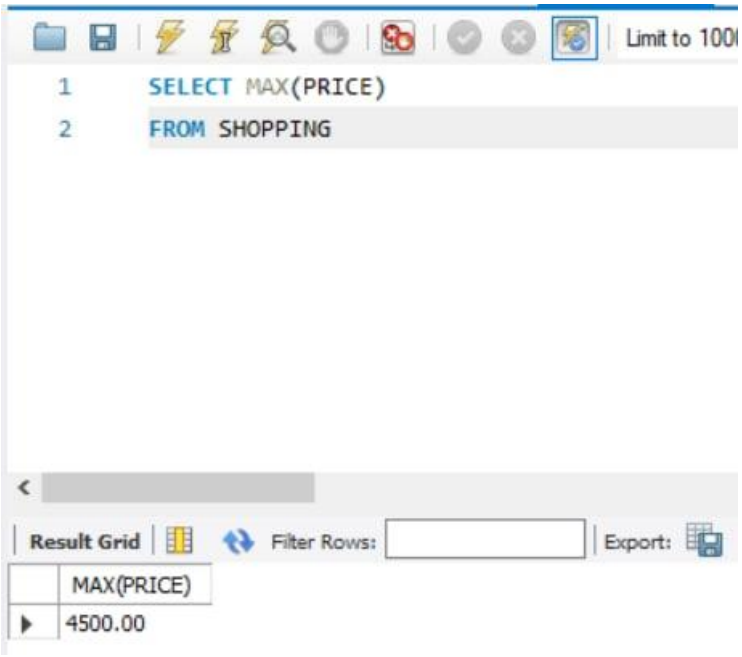
1. Creating a table showing some purchases (5-10 purchases). The table should contain the primary key, the name of the product, the number of purchased units of this product and the purchase price.



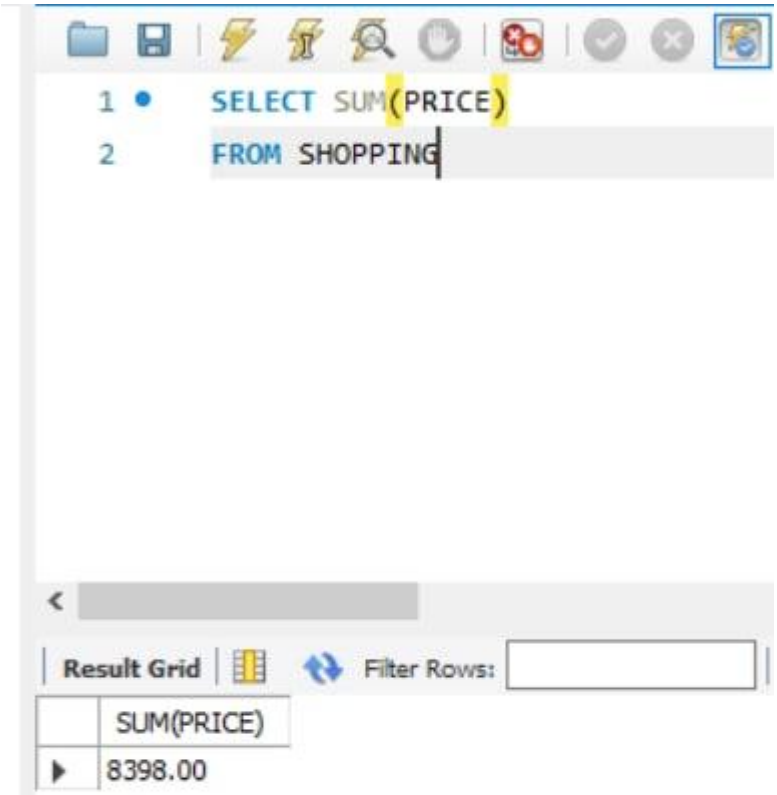


2. Write requests that will show:

- the highest price you paid for the product



- the total cost of goods



- all information about goods worth more than UAH 100

```
SELECT *
FROM SHOPPING
WHERE PRICE > 100
```

Result Grid | Filter Rows: | Edit:

ID	NAME	QUANTITY	PRICE
1	MAGIC WAND	1	1000.00
2	STUDY BOOKS	15	4500.00
3	OWL	1	2745.00
NULL	NULL	NULL	NULL

- the number of items that cost less than UAH 100

```
SELECT *
FROM SHOPPING
WHERE PRICE <= 100
```

Result Grid | Filter Rows: | Edit:

ID	NAME	QUANTITY	PRICE
4	PENCILS	5	100.00
5	CANDIES	2	53.00
NULL	NULL	NULL	NULL

- the average cost of goods from your purchases

```
SELECT AVG(PRICE)
FROM SHOPPING
```

Result Grid | Filter Rows: | Export: | Wrap

AVG(PRICE)
1679.600000

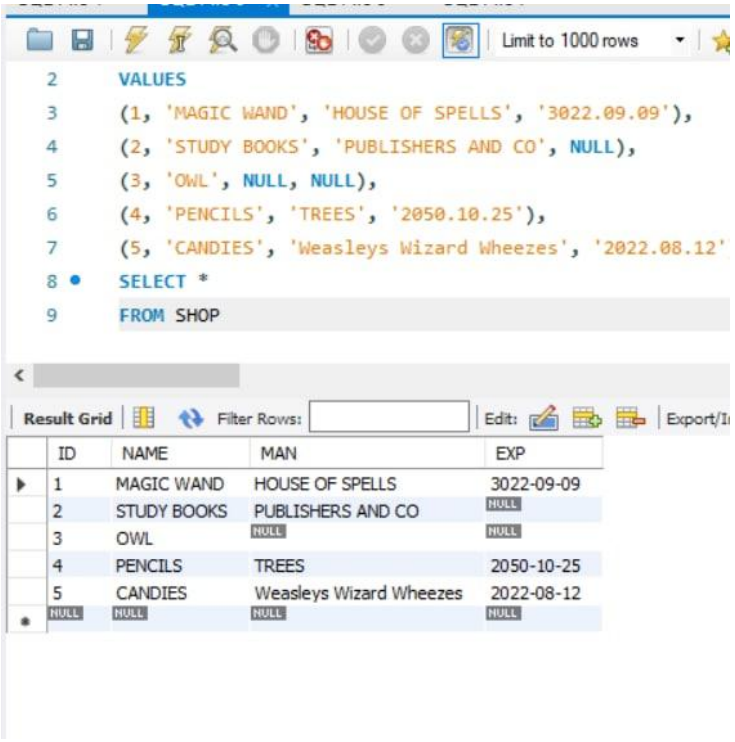
3. In the same database, creating another table. It contains: the name of the goods, the name of the manufacturer and the expiration date. Filling in the table with the same products that were in the previous table.

```
CREATE TABLE SHOP (
ID INT (2) KEY,
NAME VARCHAR (255) NOT NULL,
MAN VARCHAR (255),
EXP DATE
)
```

```
DESC SHOP
```

Result Grid | Filter Rows: | Export:

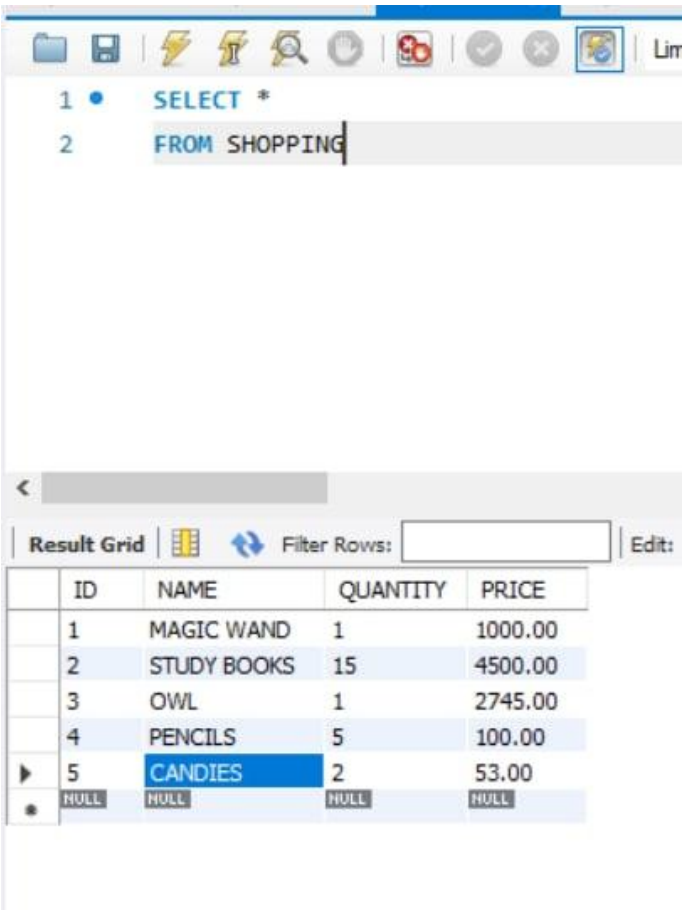
Field	Type	Null	Key	Default	Extra
ID	int	NO	PRI	NULL	
NAME	varchar(255)	NO		NULL	
MAN	varchar(255)	YES		NULL	
EXP	date	YES		NULL	



```
VALUES
(1, 'MAGIC WAND', 'HOUSE OF SPELLS', '3022.09.09'),
(2, 'STUDY BOOKS', 'PUBLISHERS AND CO', NULL),
(3, 'OWL', NULL, NULL),
(4, 'PENCILS', 'TREES', '2050.10.25'),
(5, 'CANDIES', 'Weasleys Wizard Wheezes', '2022.08.12'
SELECT *
FROM SHOP
```

Result Grid | Filter Rows: | Edit: | Export/I

ID	NAME	MAN	EXP
1	MAGIC WAND	HOUSE OF SPELLS	3022-09-09
2	STUDY BOOKS	PUBLISHERS AND CO	NULL
3	OWL	NULL	NULL
4	PENCILS	TREES	2050-10-25
5	CANDIES	Weasleys Wizard Wheezes	2022-08-12
NULL	NULL	NULL	NULL



```
SELECT *
FROM SHOPPING
```

Result Grid | Filter Rows: | Edit:

ID	NAME	QUANTITY	PRICE
1	MAGIC WAND	1	1000.00
2	STUDY BOOKS	15	4500.00
3	OWL	1	2745.00
4	PENCILS	5	100.00
5	CANDIES	2	53.00
NULL	NULL	NULL	NULL

4. Creating requests that will show:

- Primary key, product name, product manufacturer for any two products;

```
SELECT SHOP.ID, SHOP.NAME, MAN
FROM SHOPPING
JOIN shop
ON SHOPPING.NAME = SHOP.NAME
ORDER BY NAME LIMIT 2
```

Result Grid | Filter Rows: | Expo

ID	NAME	MAN
5	CANDIES	Weasleys Wizard Wheezes
1	MAGIC WAND	HOUSE OF SPELLS

- Name, manufacturer and expiration date of goods with price less than UAH 100;

Limit to 1000 rows

```
SELECT SHOP.NAME, MAN, EXP
FROM shop
JOIN SHOPPING
ON SHOP.ID = SHOPPING.ID
WHERE PRICE < 100
```

Result Grid | Filter Rows: | Export: | Wrap Cell C

NAME	MAN	EXP
CANDIES	Weasleys Wizard Wheezes	2022-08-12

- Name, manufacturer and price of the product that has the longest shelf life.