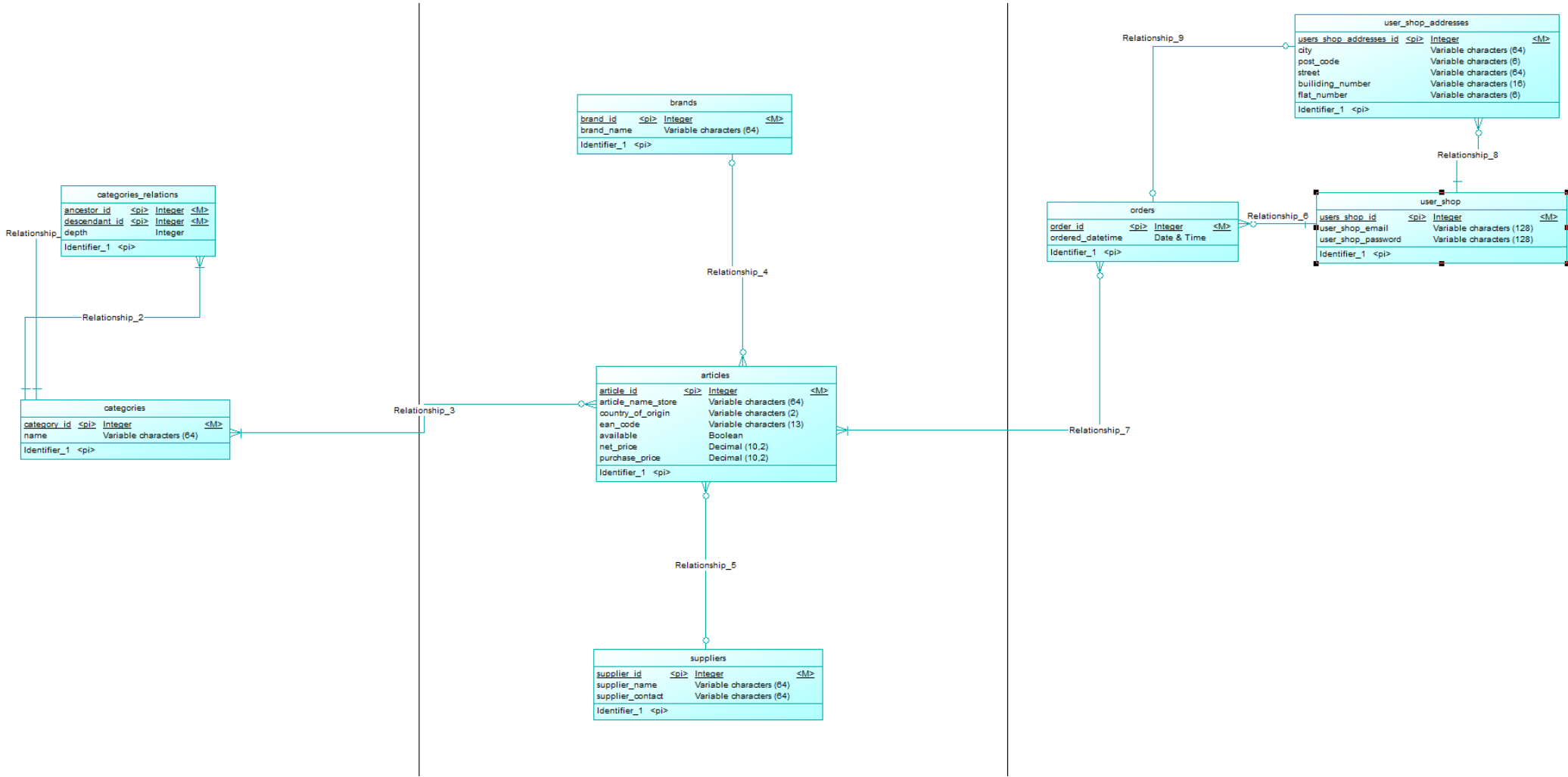
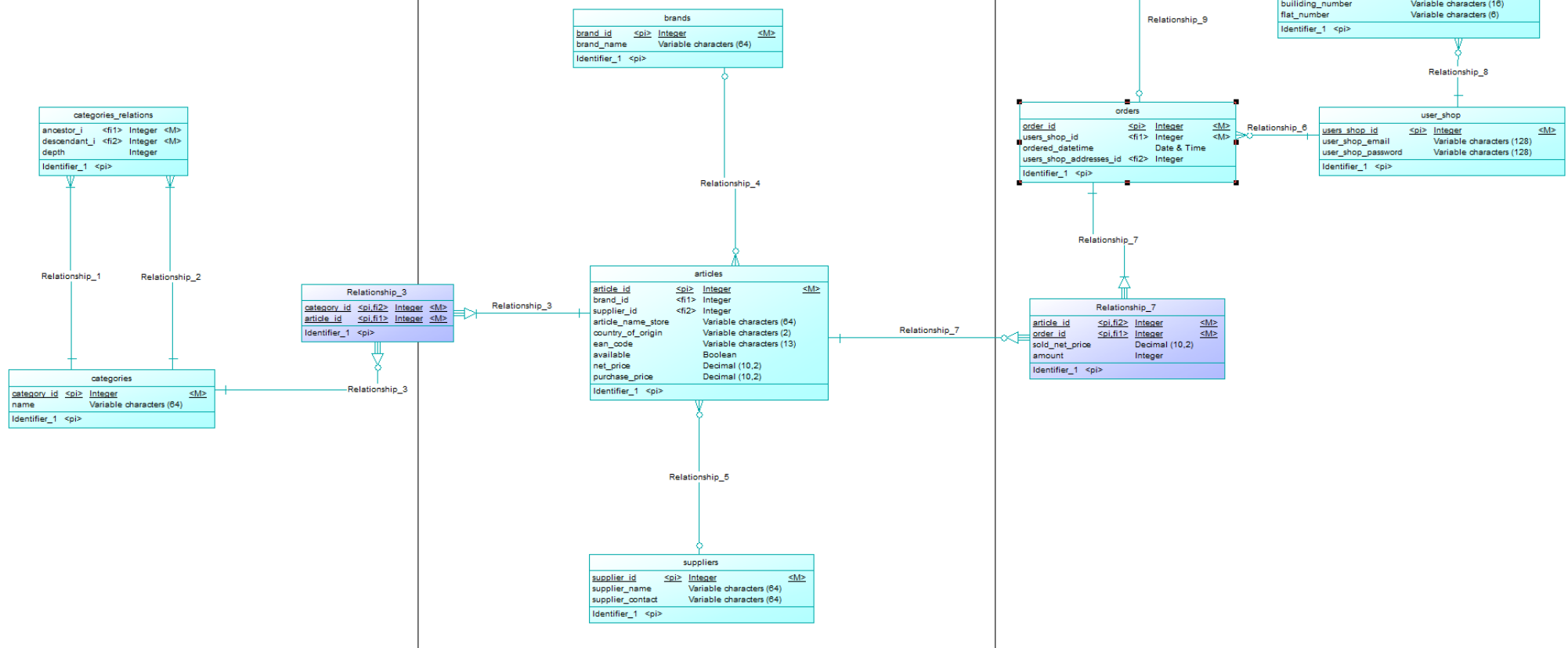


**Igor Dudek**

**Index – s7079**

Pkt.1    Diagramy





## Pkt.2 Skrypt Sql – w pliku

## Pkt.3 Zapytania `Insert`

### 1) Kategorie

```
INSERT INTO `categories`(`name`) VALUES ("Buty"),("Sport"),("Nike"),("Adidas"),("Piłka Nożna"),("Koszykówka");
```

category_id	name
1	Buty
2	Sport
3	Nike
4	Adidas
5	Piłka Nożna
6	Koszykówka

2) Tabela domykająca dla kategorii

```
INSERT INTO `categories_relations`(`ancestor_id`, `descendant_id`, `depth`) SELECT category_id, category_id, 0 FROM categories;  
INSERT INTO `categories_relations`(`ancestor_id`, `descendant_id`, `depth`) VALUES  
((SELECT category_id FROM categories WHERE category_id=1),(SELECT category_id FROM categories WHERE category_id=2), 1),  
((SELECT category_id FROM categories WHERE category_id=1),(SELECT category_id FROM categories WHERE category_id=3), 1),  
((SELECT category_id FROM categories WHERE category_id=2),(SELECT category_id FROM categories WHERE category_id=5), 1),  
((SELECT category_id FROM categories WHERE category_id=2),(SELECT category_id FROM categories WHERE category_id=6), 1);
```

ancestor_id	descendant_id	depth
1	1	0
1	2	1
1	3	1
2	2	0
2	5	1
2	6	1
3	3	0
4	4	0
5	5	0
6	6	0

3) Marki

a. INSERT INTO `brands`(`brand\_name`) VALUES ("Nike"), ("Adidas"), ("Reebok"), ("Puma"), ("Umbro"), ("Jordan");

brand_id	brand_name
1	Nike
2	Adidas
3	Reebok
4	Puma
5	Umbro
6	Jordan

#### 4) Dostawcy

- a. INSERT INTO `suppliers`(`supplier\_name`, `supplier\_contact`) VALUES ('Zalando','790350123'),('Hurtownia Adidas','780350123'),('Hurtownia Nike','770350123'),('Hurtownia rzeczy do koszykówki','760350123'),('Hurtownia rzeczy do piłki nożnej','750350123');

supplier_id	supplier_name	supplier_contact
1	Zalando	790350123
2	Hurtownia Adidas	780350123
3	Hurtownia Nike	770350123
4	Hurtownia rzeczy do koszykówki	760350123
5	Hurtownia rzeczy do piłki nożnej	750350123

#### 5) Artykuły

INSERT INTO `articles`(`brand\_id`, `supplier\_id`, `article\_name\_store`, `country\_of\_origin`, `ean\_code`, `available`, `net\_price`, `purchase\_price`) VALUES ((SELECT brand\_id FROM brands WHERE brand\_id=1),(SELECT supplier\_id FROM suppliers WHERE supplier\_id=3),'Piłka do piłki nożnej','PL','5907069002004','1',15.99,13.20), ((SELECT brand\_id FROM brands WHERE brand\_id=2),(SELECT supplier\_id FROM suppliers WHERE supplier\_id=2),'Znaczniki','DE','7613034944849','1',119.99,100.23), ((SELECT brand\_id FROM brands WHERE brand\_id=6),(SELECT supplier\_id FROM suppliers WHERE supplier\_id=4),'Piłka do koszykówki','EN','5903189076314','0',499.99,458.12), ((SELECT brand\_id FROM brands WHERE brand\_id=1),(SELECT supplier\_id FROM suppliers WHERE supplier\_id=1),'Super buty do piłki nożnej','GB','3052910056469','1',599.99,501.20), ((SELECT brand\_id FROM brands WHERE brand\_id=2),(SELECT supplier\_id FROM suppliers WHERE supplier\_id=1),'Super buty do koszykówki','PL','3052911145094','1',799.99,756.10);

article_id	brand_id	supplier_id	article_name_store	country_of_origin	ean_code	available	net_price	purchase_price
1	1	3	Piłka do piłki nożnej	PL	5907069002004	1	15.99	13.20
2	2	2	Znaczniki	DE	7613034944849	1	119.99	100.23
3	6	4	Piłka do koszykówki	EN	5903189076314	0	499.99	458.12
4	1	1	Super buty do piłki nożnej	GB	3052910056469	1	599.99	501.20
5	2	1	Super buty do koszykówki	PL	3052911145094	1	799.99	756.10

## 6) Kategorie do Artykułów

INSERT INTO `Relationship\_3`(`category\_id`, `article\_id`) VALUES

((SELECT category\_id FROM categories WHERE category\_id=5),(SELECT article\_id FROM articles WHERE article\_id=1)),  
 ((SELECT category\_id FROM categories WHERE category\_id=3),(SELECT article\_id FROM articles WHERE article\_id=2)),  
 ((SELECT category\_id FROM categories WHERE category\_id=6),(SELECT article\_id FROM articles WHERE article\_id=3)),  
 ((SELECT category\_id FROM categories WHERE category\_id=5),(SELECT article\_id FROM articles WHERE article\_id=4)),  
 ((SELECT category\_id FROM categories WHERE category\_id=4),(SELECT article\_id FROM articles WHERE article\_id=4)),  
 ((SELECT category\_id FROM categories WHERE category\_id=6),(SELECT article\_id FROM articles WHERE article\_id=5)),  
 ((SELECT category\_id FROM categories WHERE category\_id=3),(SELECT article\_id FROM articles WHERE article\_id=5));

category_id	article_id
3	2
3	5
4	4
5	1
5	4
6	3
6	5

## 7) Użytkownicy

INSERT INTO `user\_shop`(`user\_shop\_email`, `user\_shop\_password`) VALUES

('superMail@gmail.com','\$2a\$12\$6RZTjp7Uiv7C2sH/lcVnbeZAKzMkWeJhaq.nrC2Vid2cH6EP6BR5u'),  
 ('johnDoe@gmail.com','\$2a\$12\$39CP0tkl3c244D3W2MRQeuvZ7FwDf1vc1UB5oCZeVKlbf.9ST/h1a'),  
 ('marcinNowak@gmail.com','\$2a\$12\$mVrvnhRxiWI3u5WxYNEFaucwoUK5BudyW/CTrq817s461lydnslMG'),  
 ('123Nowak@gmail.com','\$2a\$12\$GHSycU6MxphjHJdihjW0euwBkPBjHBJ5qabnlajvAhsopAL0EVEDu'),  
 ('janKOWalski@gmail.com','\$2a\$12\$9bk2df5f7DTqVxKco9UjZOfx4W1U5oEoR.mR8t9tPoTRvVtBMVeAC');

users_shop_id	user_shop_email	user_shop_password
1	superMail@gmail.com	\$2a\$12\$6RZTjp7Uiv7C2sH/lcVnbeZAKzMkWeJhaq.nrC2Vid2...
2	johnDoe@gmail.com	\$2a\$12\$39CP0tkl3c244D3W2MRQeuvZ7FwDf1vc1UB5oCZeVKl...
3	marcinNowak@gmail.com	\$2a\$12\$mVrvnhRxiWI3u5WxYNEFaucwoUK5BudyW/CTrq817s4...
4	123Nowak@gmail.com	\$2a\$12\$GHSycU6MxphjHJdihjW0euwBkPBjHBJ5qabnlajvAhs...
5	janKOWalski@gmail.com	\$2a\$12\$9bk2df5f7DTqVxKco9UjZOfx4W1U5oEoR.mR8t9tPoT...

## 8) Adresy Użytkowników

```
INSERT INTO `user_shop_addresses`(`users_shop_id`, `city`, `post_code`, `street`, `building_number`, `flat_number`) VALUES
  ((SELECT users_shop_id FROM user_shop where users_shop_id=1),'Wrocław','54-345','Grabiszyńska','13A','11'),
  ((SELECT users_shop_id FROM user_shop where users_shop_id=2),'Poznań','61-745','Maricnkowsiego','9','13'),
  ((SELECT users_shop_id FROM user_shop where users_shop_id=3),'Warszawa','00-001','Łączności','32','1'),
  ((SELECT users_shop_id FROM user_shop where users_shop_id=4),'Kraków','09-890','Trzebnicka','12','9'),
  ((SELECT users_shop_id FROM user_shop where users_shop_id=5),'Gdańsk','78-765','Legnicka','AB1','123');
```

users_shop_addresses_id	users_shop_id	city	post_code	street	building_number	flat_number
1	1	Wrocław	54-345	Grabiszyńska	13A	11
2	2	Poznań	61-745	Maricnkowsiego	9	13
3	3	Warszawa	00-001	Łączności	32	1
4	4	Kraków	09-890	Trzebnicka	12	9
5	5	Gdańsk	78-765	Legnicka	AB1	123

## 9) Zamówienia

```
INSERT INTO `orders`(`users_shop_id`, `ordered_datetime`) VALUES
  ((SELECT users_shop_id FROM user_shop where users_shop_id=1),NOW()),(SELECT user_shop_addresses FROM user_shop_addresses WHERE users_shop_id=1)),
  ((SELECT users_shop_id FROM user_shop where users_shop_id=2),NOW()),(SELECT user_shop_addresses FROM user_shop_addresses WHERE users_shop_id=2),
  ((SELECT users_shop_id FROM user_shop where users_shop_id=3),NOW()),(SELECT user_shop_addresses FROM user_shop_addresses WHERE users_shop_id=3),
  ((SELECT users_shop_id FROM user_shop where users_shop_id=4),NOW()),(SELECT user_shop_addresses FROM user_shop_addresses WHERE users_shop_id=4),
  ((SELECT users_shop_id FROM user_shop where users_shop_id=5),NOW()),(SELECT user_shop_addresses FROM user_shop_addresses WHERE users_shop_id=5);
```

order_id	users_shop_id	ordered_datetime	users_shop_addresses_id
1	1	2022-01-08 15:16:44	1
2	2	2022-01-08 15:16:44	2
3	3	2022-01-08 15:16:44	3
4	4	2022-01-08 15:16:44	4
5	5	2022-01-08 15:16:44	5

# 10) Zamówione Artykuły

```
INSERT INTO `Relationship_7`(`order_id`, `article_id`, `sold_net_price`, `amount`) VALUES
```

```
((SELECT order_id FROM orders WHERE order_id=1),(SELECT article_id FROM articles WHERE article_id=1),(SELECT net_price FROM articles WHERE article_id=1),2),
((SELECT order_id FROM orders WHERE order_id=1),(SELECT article_id FROM articles WHERE article_id=3),(SELECT net_price FROM articles WHERE article_id=3),4),
((SELECT order_id FROM orders WHERE order_id=1),(SELECT article_id FROM articles WHERE article_id=2),(SELECT net_price FROM articles WHERE article_id=2),4),
((SELECT order_id FROM orders WHERE order_id=2),(SELECT article_id FROM articles WHERE article_id=2),(SELECT net_price FROM articles WHERE article_id=2),10),
((SELECT order_id FROM orders WHERE order_id=2),(SELECT article_id FROM articles WHERE article_id=5),(SELECT net_price FROM articles WHERE article_id=5),1),
((SELECT order_id FROM orders WHERE order_id=3),(SELECT article_id FROM articles WHERE article_id=1),(SELECT net_price FROM articles WHERE article_id=1),9),
((SELECT order_id FROM orders WHERE order_id=3),(SELECT article_id FROM articles WHERE article_id=5),(SELECT net_price FROM articles WHERE article_id=5),8),
((SELECT order_id FROM orders WHERE order_id=4),(SELECT article_id FROM articles WHERE article_id=1),(SELECT net_price FROM articles WHERE article_id=1),5),
((SELECT order_id FROM orders WHERE order_id=4),(SELECT article_id FROM articles WHERE article_id=2),(SELECT net_price FROM articles WHERE article_id=2),3),
((SELECT order_id FROM orders WHERE order_id=5),(SELECT article_id FROM articles WHERE article_id=3),(SELECT net_price FROM articles WHERE article_id=3),2),
((SELECT order_id FROM orders WHERE order_id=5),(SELECT article_id FROM articles WHERE article_id=4),(SELECT net_price FROM articles WHERE article_id=4),1);
```

article_id	order_id	sold_net_price	amount
1	1	15.99	2
1	3	15.99	9
1	4	15.99	5
2	1	119.99	4
2	2	119.99	10
2	4	119.99	3
3	1	499.99	4
3	5	499.99	2
4	5	599.99	1
5	2	799.99	1
5	3	799.99	8



#### Pkt.4 Zapytania `SELECT` na pojedynczych tabelach (+projekcja, min.10)

1. SELECT `article\_name\_store`, `country\_of\_origin`, `ean\_code`, `available`, `net\_price`, `purchase\_price` FROM `articles`;

article_name_store	country_of_origin	ean_code	available	net_price	purchase_price
Piłka do piłki nożnej	PL	5907069002004	1	15.99	13.20
Znaczniki	DE	7613034944849	1	119.99	100.23
Piłka do koszykówki	EN	5903189076314	0	499.99	458.12
Super buty do piłki nożnej	GB	3052910056469	1	599.99	501.20
Super buty do koszykówki	PL	3052911145094	1	799.99	756.10

2. SELECT `article\_name\_store` FROM `articles` where net\_price BETWEEN 400 AND 600;

article_name_store
Piłka do koszykówki
Super buty do piłki nożnej

3. SELECT users\_shop\_id FROM `orders` WHERE DATE(ordered\_datetime) <= DATE(NOW());

users_shop_id
1
2
3
4
5

4. SELECT name FROM `categories`;

name
Buty
Sport
Nike
Adidas
Piłka Nożna
Koszykówka

5. SELECT ancestor\_id, descendant\_id, depth FROM `categories\_relations` WHERE depth > 0;

ancestor_id	descendant_id	depth
1	2	1
1	3	1
2	5	1
2	6	1

6. SELECT ancestor\_id, descendant\_id, depth FROM `categories\_relations` WHERE depth = 0;

ancestor_id	descendant_id	depth
1	1	0
2	2	0
3	3	0
4	4	0
5	5	0
6	6	0

7. SELECT \* FROM `brands` where brand\_name LIKE '%a%';

brand_id	brand_name
2	Adidas
4	Puma
6	Jordan

8. SELECT post\_code, street, building\_number, flat\_number FROM `user\_shop\_addresses` WHERE CITY IN ("Wrocław", "Poznań", "Warszawa");

post_code	street	building_number	flat_number
54-345	Grabiezyńska	13A	11
61-745	Marickowsiego	9	13
00-001	Łączności	32	1

9. SELECT order\_id, sold\_net\_price, amount FROM `Relationship\_7` WHERE sold\_net\_price > 100 AND amount > 2;

order_id	sold_net_price	amount
1	119.99	4
2	119.99	10
4	119.99	3
1	499.99	4
3	799.99	8

10. SELECT user\_shop\_email FROM `user\_shop`;

user\_shop\_email

superMail@gmail.com

johnDoe@gmail.com

marcinNowak@gmail.com

123Nowak@gmail.com

janKOWalski@gmail.com

#### Pkt.5 Zapytania `SELECT` na pojedynczych tabelach (+agregacja, fn. arytmetyczne, grupujące, min.10

1. SELECT MIN(net\_price) AS najtańszy\_produkt FROM articles;
2. SELECT MAX(net\_price-purchase\_price) AS największą\_marża FROM articles;
3. SELECT COUNT(article\_id) AS amount, country\_of\_origin FROM `articles` GROUP BY country\_of\_origin ORDER BY amount DESC;
4. SELECT CAST(AVG(net\_price) AS DECIMAL(10,2)) FROM `articles`;
5. SELECT SUM(amount\*sold\_net\_price), order\_id FROM `Relationship\_7` GROUP BY order\_id;
6. SELECT v1.user\_shop\_email, v2.\* FROM `user\_shop` v1 LEFT JOIN user\_shop\_addresses v2 ON v1.users\_shop\_id=v2.users\_shop\_addresses\_id;
7. SELECT v1.name FROM categories AS v1 JOIN categories\_relations AS v2 ON v1.category\_id = v2.descendant\_id WHERE v2.ancestor\_id=1;
8. SELECT v1.article\_name\_store, v2.brand\_name, v3.supplier\_name, v3.supplier\_contact FROM `articles` v1 INNER JOIN brands v2 ON v1.brand\_id=v2.brand\_id INNER JOIN suppliers v3 ON v1.supplier\_id=v3.supplier\_id;
9. SELECT \* FROM categories\_relations v1 INNER JOIN categories v2 ON v1.ancestor\_id=v2.category\_id OR v1.descendant\_id=v2.category\_id LEFT JOIN Relationship\_3 v3 ON v1.descendant\_id=v3.category\_id INNER JOIN articles v4 ON v3.article\_id=v4.article\_id WHERE ancestor\_id!=descendant\_id;
10. SELECT v1.ordered\_datetime, v2.user\_shop\_email, CONCAT(v3.street, ' ', v3.building\_number, '/', v3.flat\_number, ' ', v3.city, ' ', v3.post\_code) AS address, SUM(v4.sold\_net\_price\*v4.amount) AS order\_sum FROM `orders` v1 INNER JOIN user\_shop v2 ON v1.users\_shop\_id=v2.users\_shop\_id INNER JOIN user\_shop\_addresses v3 ON v1.users\_shop\_addresses\_id=v3.users\_shop\_addresses\_id INNER JOIN Relationship\_7 v4 ON v1.order\_id=v4.order\_id LEFT JOIN articles v5 ON v4.article\_id=v5.article\_id GROUP BY ordered\_datetime, user\_shop\_email, address;

**Pkt.6 Zapytania Update (min.10)**

1. UPDATE `brands` SET brand\_name='ASICS' WHERE id=1
2. UPDATE `user\_shop\_addresses` SET `city`='Szczecin',`post\_code`='12-345',`street`='Nowa',`building\_number`='7b',`flat\_number`='1' WHERE users\_shop\_addresses\_id=4;
3. UPDATE `articles` SET `supplier\_id`=2 WHERE brand\_id=1;
4. UPDATE `orders` SET `ordered\_datetime`=NOW() WHERE order\_id=5
5. UPDATE `categories\_relations` SET `ancestor\_id`=2 WHERE `ancestor\_id`=1,`descendant\_id`=3;
6. UPDATE `suppliers` SET supplier\_contact='890123654' WHERE supplier\_id=1;
7. UPDATE `articles` SET `net\_price`=net\_price+10;
8. UPDATE `articles` SET `purchase\_price`= purchase\_price-0.10 WHERE id < 3;
9. UPDATE `articles` SET `article\_name\_store`=CONCAT(`article\_name\_store`,` `, `country\_of\_origin`) WHERE country\_of\_origin='PL'
10. UPDATE `articles` v1 INNER JOIN `brands` v2 ON v1.brand\_id=v2.brand\_id SET v1.`article\_name\_store`=CONCAT(v2.`brand\_name`,` `,v1.`article\_name\_store`);