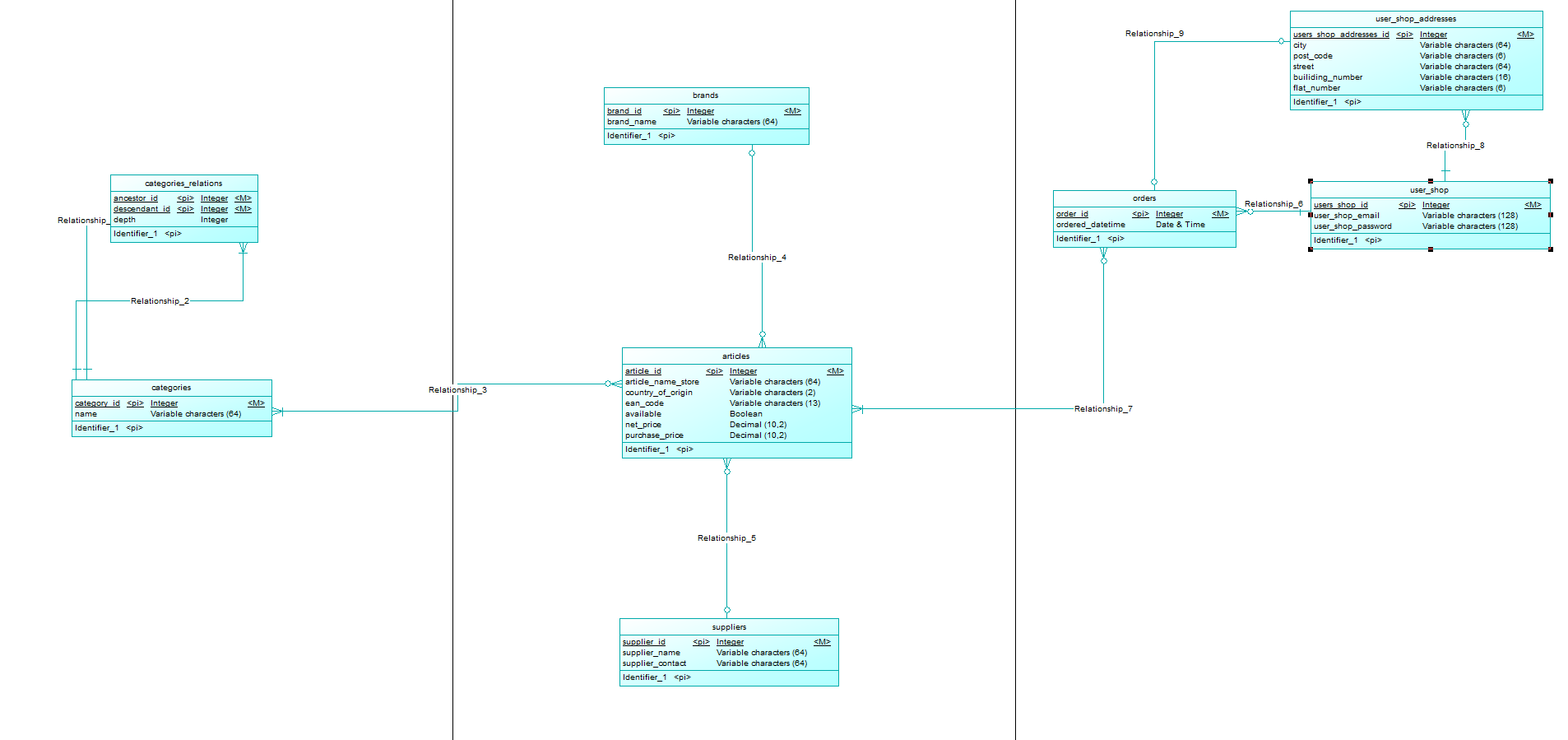
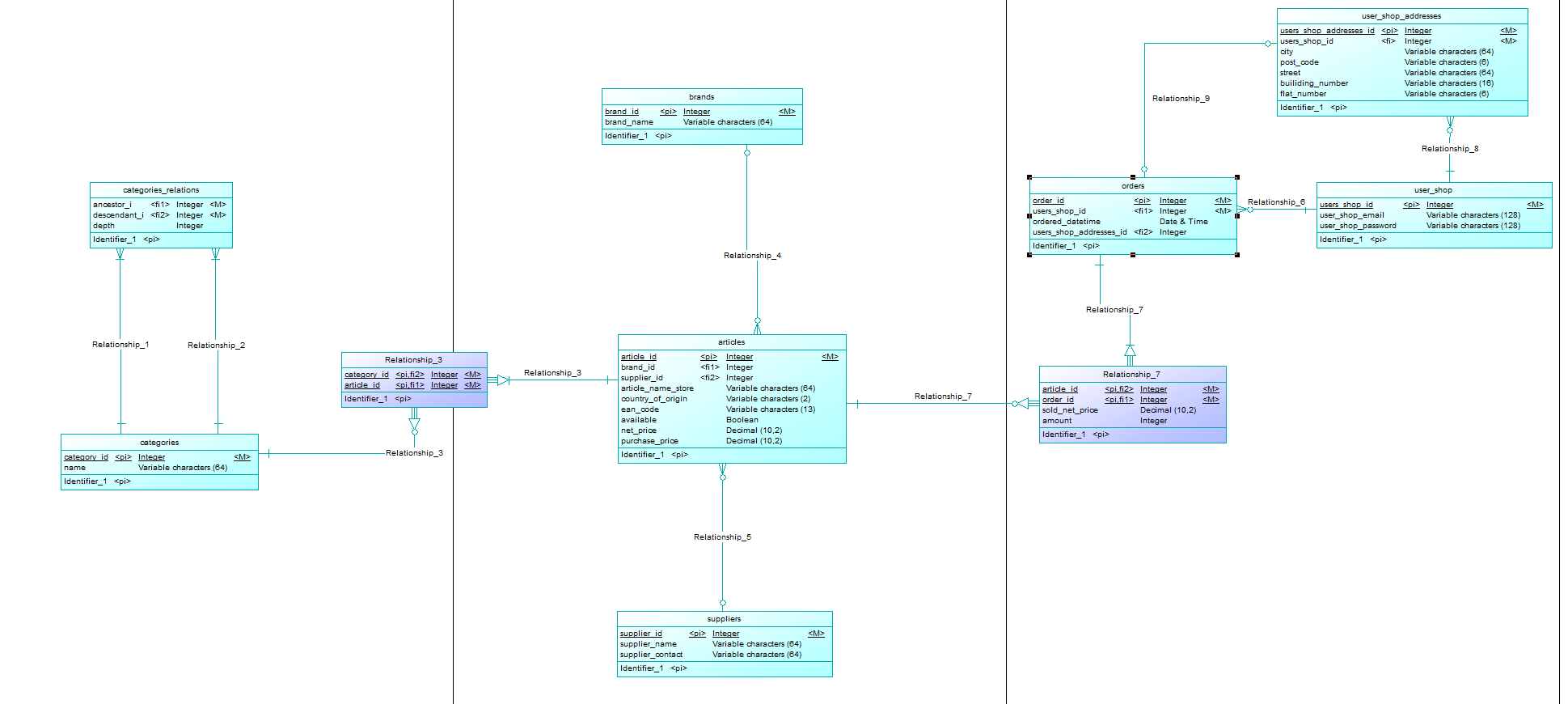
**Igor Dudek**

**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");



1. Tabela domykająca dla katgorii

INSERT INTO `categories\_relations`(`ancestor\_i`, `descendant\_i`, `depth`) SELECT category\_id, category\_id, 0 FROM categories;

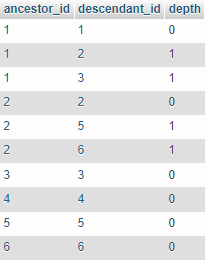
INSERT INTO `categories\_relations`(`ancestor\_id`, `descendant\_id`, `depth`) VALUES

((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);



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



1. Dostawcy
   1. 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');



1. Artykuły

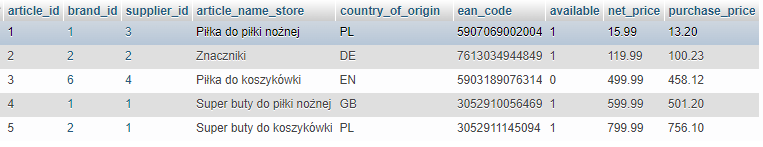
INSERT INTO `articles`( `brand\_id`, `supplier\_id`, `article\_name\_store`, `country\_of\_origin`, `ean\_code`, `available`, `net\_price`, `purchase\_price`) VALUES

((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); 

1. 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)),

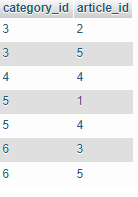
((SELECT category\_id FROM categories WHERE category\_id=6),(SELECT article\_id FROM articles WHERE article\_id=3)),

((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));



1. Użytkownicy

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

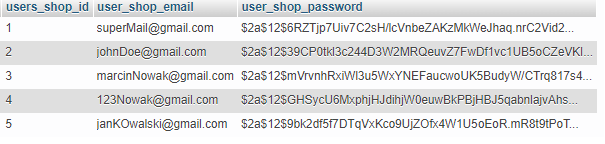
('superMail@gmail.com','$2a$12$6RZTjp7Uiv7C2sH/lcVnbeZAKzMkWeJhaq.nrC2Vid2cH6EP6BR5u'),

('johnDoe@gmail.com','$2a$12$39CP0tkl3c244D3W2MRQeuvZ7FwDf1vc1UB5oCZeVKIbf.9ST/h1a'),

('marcinNowak@gmail.com','$2a$12$mVrvnhRxiWl3u5WxYNEFaucwoUK5BudyW/CTrq817s461IydnslMG'),

('123Nowak@gmail.com','$2a$12$GHSycU6MxphjHJdihjW0euwBkPBjHBJ5qabnlajvAhsopAL0EVEDu'),

('janKOwalski@gmail.com','$2a$12$9bk2df5f7DTqVxKco9UjZOfx4W1U5oEoR.mR8t9tPoTRvVtBMVeAC');



1. Adresy Użytkowników

INSERT INTO `user\_shop\_addresses`(`users\_shop\_id`, `city`, `post\_code`, `street`, `builiding\_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'); 

1. Zamówienia

INSERT INTO `orders`(`users\_shop\_id`, `ordered\_datetime`) VALUES

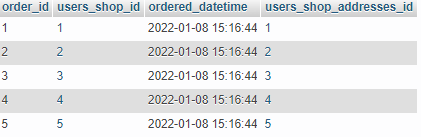
((SELECT users\_shop\_id FROM user\_shop where users\_shop\_id=1),NOW(),(SELECT user\_shop\_addresses FROM user\_shop\_addresses WHERE users\_shop\_id=1)),

((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);



1. 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),

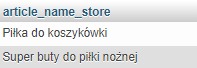
((SELECT order\_id FROM orders WHERE order\_id=4),(SELECT article\_id FROM articles WHERE article\_id=2),(SELECT net\_price FROM articles WHERE article\_id=2),3),

((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),

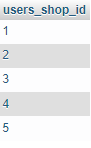
((SELECT order\_id FROM orders WHERE order\_id=5),(SELECT article\_id FROM articles WHERE article\_id=4),(SELECT net\_price FROM articles WHERE article\_id=4),1); 

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



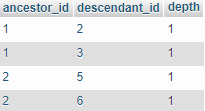
1. SELECT users\_shop\_id FROM `orders` WHERE DATE(ordered\_datetime) <= DATE(NOW());



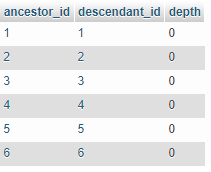
1. SELECT name FROM `categories`;



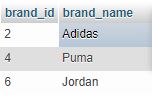
1. SELECT ancestor\_id, descendant\_id, depth FROM `categories\_relations` WHERE depth > 0;

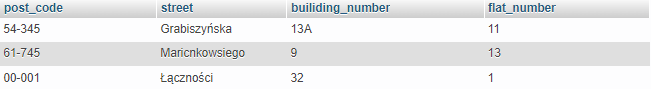


1. SELECT ancestor\_id, descendant\_id, depth FROM `categories\_relations` WHERE depth = 0;



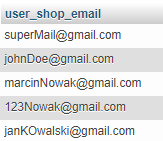
1. SELECT \* FROM `brands` where brand\_name LIKE '%a%';



1. SELECT post\_code, street, builiding\_number,flat\_number FROM `user\_shop\_addresses` WHERE CITY IN ("Wrocław", "Poznań", "Warszawa"); 
2. SELECT order\_id, sold\_net\_price, amount FROM `Relationship\_7` WHERE sold\_net\_price > 100 AND amount > 2;



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



**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.builiding\_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',`builiding\_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`);