```
1. a Table User
 CREATE TABLE 'nisa'.'user' (
 'id' INT NOT NULL,
 `username` VARCHAR(45) NULL,
 'password' VARCHAR(45) NULL,
 'created at' DATETIME NULL,
 'updated at' DATETIME NULL,
 PRIMARY KEY (`user_id`));
b. Table Product
 CREATE TABLE 'nisa'. 'product' (
 'id' INT NOT NULL AUTO_INCREMENT,
 `product_name` VARCHAR(45) NULL,
 'price' INT NULL,
 `created_at` DATETIME NULL,
 `updated_at` DATETIME NULL,
 PRIMARY KEY ('id'));
 c. Table Transaction Product
 CREATE TABLE `nisa`.`transaction_product` (
 'id' INT NOT NULL,
 `transaction id` INT NULL,
 `product_id` INT NULL,
 `quantity` INT NULL,
 PRIMARY KEY ('id'));
```

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d. Table Transaction
 CREATE TABLE 'nisa'. 'transaction' (
 'id' INT NOT NULL,
 'user id' INT NULL,
 'total price' INT NULL,
 `created at` DATETIME NULL,
 'updated at' DATETIME NULL,
 PRIMARY KEY ('id'));
2. ALTER TABLE 'nisa'.'user' ADD PRIMARY KEY ('id')
 ALTER TABLE 'nisa'. 'product' ADD PRIMARY KEY ('id')
 ALTER TABLE 'nisa'. 'transaction product' ADD PRIMARY KEY ('id')
 ALTER TABLE 'nisa'. 'transaction' ADD PRIMARY KEY ('id')
ALTER TABLE 'nisa'. 'transaction product' ADD CONSTRAINT 'product link' FOREIGN KEY
('product id') REFERENCES 'nisa'. 'product' ('id')
 ALTER TABLE 'nisa'. 'transaction' ADD CONSTRAINT 'transaction link' FOREIGN KEY ('id')
REFERENCES `nisa`.`transaction_product` (`transaction id`)
 ALTER TABLE 'nisa'. 'transaction' ADD CONSTRAINT 'user link' FOREIGN KEY ('user id')
REFERENCES 'nisa'.'user' ('id')
3. a. INSERT INTO 'nisa'.'user' ('id', 'username', 'password', 'created_at', 'updated_at')
VALUES ('1', 'andi', 'andi123', '2022-08-27', '2022-08-27');
INSERT INTO 'nisa'.'user' ('id', 'username', 'password', 'created at', 'updated at') VALUES
('2', 'budi', 'budi ganteng999', '2022-08-27', '2022-08-27');
 b. INSERT INTO 'nisa'.'product' ('id', 'product name', 'price', 'created at', 'updated at')
VALUES ('1', 'baju', '67000', '2022-08-17', '2022-08-17');
   INSERT INTO 'nisa'.'product' ('id', 'product name', 'price', 'created at', 'updated at')
VALUES ('2', 'celana', '86000', '2022-08-18', '2022-08-18');
   INSERT INTO 'nisa'.'product' ('id', 'product name', 'price', 'created at', 'updated at')
VALUES ('3', 'buku', '24000', '2022-08-19', '2022-08-19');
```

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INSERT INTO 'nisa'.'product' ('id', 'product name', 'price', 'created at', 'updated at')
VALUES ('4', 'sepatu', '128000', '2022-08-20', '2022-08-20');
   INSERT INTO 'nisa'.'product' ('id', 'product name', 'price', 'created at', 'updated at')
VALUES ('5', 'sepeda', '1500000', '2022-08-21', '2022-08-21');
   INSERT INTO 'nisa'.'product' ('id', 'product name', 'price', 'created at', 'updated at')
VALUES ('6', 'bola', '17000', '2022-08-22', '2022-08-22');
   INSERT INTO 'nisa'.'product' ('id', 'product name', 'price', 'created at', 'updated at')
VALUES ('7', 'komputer', '8956000', '2022-08-23', '2022-08-23');
   INSERT INTO 'nisa'.'product' ('id', 'product name', 'price', 'created at', 'updated at')
VALUES ('8', 'gelas', '96400', '2022-08-24', '2022-08-24');
 c. INSERT INTO 'nisa'. 'transaction product' ('id', 'transaction id', 'product id', 'quantity')
VALUES ('1', '1', '1', '2');
   INSERT INTO 'nisa'. 'transaction product' ('id', 'transaction id', 'product id', 'quantity')
VALUES ('2', '1', '2', '3');
   INSERT INTO 'nisa'. 'transaction product' ('id', 'transaction id', 'product id', 'quantity')
VALUES ('3', '2', '7', '1');
   INSERT INTO 'nisa'. 'transaction product' ('id', 'transaction id', 'product id', 'quantity')
VALUES ('4', '2', '4', '1');
   INSERT INTO 'nisa'. 'transaction product' ('id', 'transaction id', 'product id', 'quantity')
VALUES ('5', '3', '2', '4');
   INSERT INTO 'nisa'. 'transaction product' ('id', 'transaction id', 'product id', 'quantity')
VALUES ('6', '3', '3', '4');
   INSERT INTO 'nisa'. 'transaction product' ('id', 'transaction id', 'product id', 'quantity')
VALUES ('7', '4', '8', '2');
   INSERT INTO 'nisa'. 'transaction product' ('id', 'transaction id', 'product id', 'quantity')
VALUES ('8', '4', '4', '2');
 d. INSERT INTO 'nisa'. 'transaction' ('id', 'user id', 'total price', 'created at', 'updated at')
VALUES ('1', '1', '392000', '2022-08-15', '2022-08-15');
   INSERT INTO 'nisa'.'transaction' ('id', 'user id', 'total price', 'created at', 'updated at')
VALUES ('2', '2', '9084000', '2022-08-15', '2022-08-15');
   INSERT INTO `nisa`.`transaction` ('id', 'user_id', 'total_price', 'created_at', 'updated_at')
```

VALUES ('3', '2', '440000', '2022-08-16', '2022-08-16');

INSERT INTO `nisa`.`transaction` (`id`, `user_id`, `total_price`, `created_at`, `updated_at`) VALUES ('4', '1', '448800', '2022-08-16', '2022-08-16');

e. UPDATE transaction_product SET quantity = '1' WHERE id = any(Select TP.id from user AS U JOIN transaction AS T ON U.id = T.user_id
JOIN transaction_product AS TP ON T.id = TP.transaction_id
JOIN product AS P ON P.id = TP.product_id
WHERE U.username = 'andi' AND P.product_name = 'gelas');

- f. DELETE FROM product WHERE price=(SELECT min(price) AS price from product);
- 4. Select * from product where price > 50000 order by product name asc LIMIT 3,6
- 5. a. select U.username, sum(TP.quantity) FROM user AS U join transaction AS T on U.id = T.user_id

join transaction_product AS TP on T.id = TP.transaction_id GROUP BY U.username

b. SELECT product_name, sum(quantity) AS jumlah FROM transaction_product AS TP JOIN product AS P ON TP.product id = P.id

GROUP BY product_name ORDER BY jumlah desc;