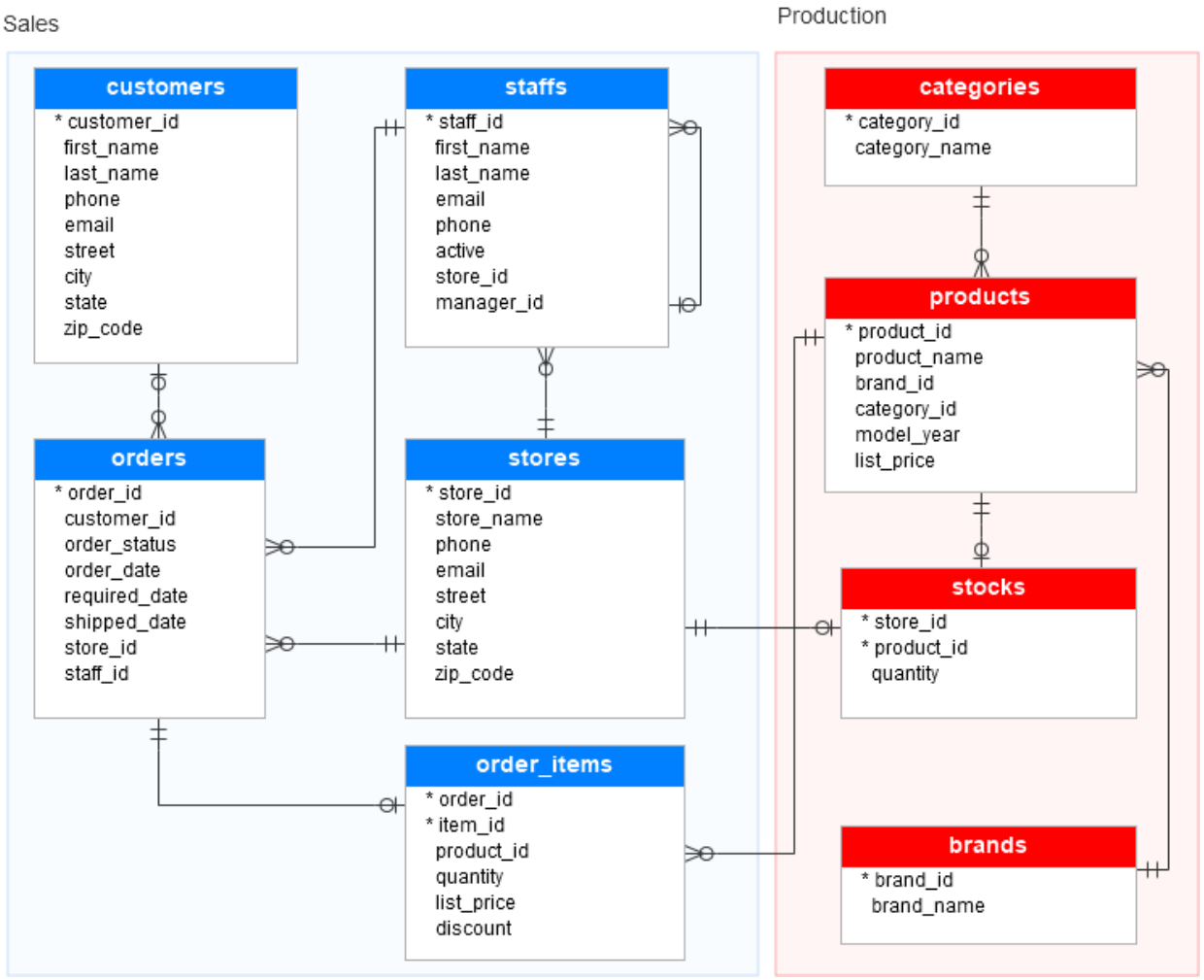
KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN
POLITEKNIK NEGERI MALANG
JURUSAN TEKNOLOGI INFORMASI
Jl. Soekarno Hatta No.9 Malang 65141
Telp (0341) 404424 – 404425 Fax (0341) 404420
Laman://www.polinema.ac.id Email:cs@polinema.ac.id

QUIZ 1 DATABASE CARRY ON
(Case study Shop Bicycle)

Shop Fast is shop Which sell all type bicycle. Picture under Thisis design drawing database diagram Shop Fast



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DETAIL DATABASE

Table sales.stores

The sales.stores table contains store information. Each store has a store name, store information, contact like telephone And e-mail, And address including road, city, country part, And code post. The following details source code to make sales.stores table

```
CREATE TABLE sales.stores (
        store_id INT IDENTITY (1, 1) PRIMARY KEY,
        store_name VARCHAR (255) NOT NULL,
        phone VARCHAR (25),
        email VARCHAR (255),
        street VARCHAR (255),
        city VARCHAR (255),
        state VARCHAR (10),
        zip_code VARCHAR (5)
);
```

Table sales.staffs

sales.staffs table store important information of staff including first name, Name back. This Also containing information communication like e-mail And telephone. A staff Work in shop Which determined by mark in column store_id . A shop can have one or more staff. A staff reports to the store manager who determined by mark in column manager_id . If mark in manager_id is null, so staff is play a role as top manager. If staff No Again Work For storage wherever, mark in column active in set to mark zero/zero.

Following This details source code For make table sales.staffs

```
CREATE TABLE sales.staffs (
        staff_id INT IDENTITY (1, 1) PRIMARY KEY,
        first_name VARCHAR (50) NOT NULL,
        last_name VARCHAR (50) NOT NULL,
        email VARCHAR (255) NOT NULL UNIQUE,
        phone VARCHAR (25),
        active tinyint NOT NULL,
        store_id INT NOT NULL,
        manager_id INT,
        FOREIGN KEY (store_id)
        REFERENCES sales.stores (store_id)
        ON DELETE CASCADE ON UPDATE CASCADE,
        FOREIGN KEY (manager_id)
        REFERENCES sales.staffs (staff_id)
        ON DELETE NO ACTION ON UPDATE NO ACTION
);
```

Table production.brands

Table production.brands keep data about information brand bicycle for example Electra, Hello, and Heller. Following This details source code For make table production.brands

```
CREATE TABLE production.brands (
        brand_id INT IDENTITY (1, 1) PRIMARY KEY,
        brand_name VARCHAR (255) NOT NULL
);
```

Table production.products

production.products table store product information such as name, brand, category, model year, and price list. Each product belongs to a specified brand. by the brand_id column . Therefore, a brand may have zero or many products. Each product also falls into a category defined by the column category_id . Additionally, each category may have zero or many products. Following This details source code for make table production.products

```
CREATE TABLE production.products (
        product_id INT IDENTITY (1, 1) PRIMARY KEY,
        product_name VARCHAR (255) NOT NULL,
        brand_id INT NOT NULL,
        category_id INT NOT NULL,
        model_year SMALLINT NOT NULL,
        list_price DECIMAL (10, 2) NOT NULL,
        FOREIGN KEY (category_id)
        REFERENCES production.categories (category_id)
        ON DELETE CASCADE ON UPDATE CASCADE,
        FOREIGN KEY (brand_id)
        REFERENCES sales.brands (brand_id)
        ON DELETE CASCADE ON UPDATE CASCADE
);
```

Table sales.customers

Table sales.customers keep information table customer including Name first, last name, phone, email, street, city, country and zip code. Here are details source code to make table sales.customers

```
CREATE TABLE sales.customers (
        customer_id INT IDENTITY (1, 1) PRIMARY KEY,
        first_name VARCHAR (255) NOT NULL,
        last_name VARCHAR (255) NOT NULL,
        phone VARCHAR (25),
        email VARCHAR (255) NOT NULL,
        street VARCHAR (255),
        city VARCHAR (50),
        state VARCHAR (25),
        zip_code VARCHAR (5)
);
```

Table sales.orders

Table sales.orders keep information Header order sale This including customer, order status, order date, required date, shipped date. This is also stores information on where the sales transaction was made (store) and who made it. make it (staff). Every order sale own line in table sales_orders. Order sale own One or Lots Items line Which savedin table sales.order_items . Following This details source code For make table sales.orders

```
CREATE TABLE sales.orders (
        order_id INT IDENTITY (1, 1) PRIMARY KEY,
        customer_id INT,
        order_status tinyint NOT NULL,
        -- Order status: 1 = Pending; 2 = Processing; 3 = Rejected; 4 = Completed
        order_date DATE NOT NULL,
        required_date DATE NOT NULL,
        shipped_date DATE,
        store_id INT NOT NULL,
        staff_id INT NOT NULL,
        FOREIGN KEY (customer_id)
        REFERENCES sales.customers (customer_id)
        ON DELETE CASCADE ON UPDATE CASCADE,
        FOREIGN KEY (store_id)
        REFERENCES sales.stores (store_id)
        ON DELETE CASCADE ON UPDATE CASCADE,
        FOREIGN KEY (staff_id)
        REFERENCES sales.staffs (staff_id)
        ON DELETE NO ACTION ON UPDATE NO ACTION
);
```

Table sales.orders_items

Table sales.order_items keep Items line from order sale. Every Items line belongs to the sales order specified by the order_id column . The order line item sales include products, order quantities, selling prices, and discounts. The following details source code For create table sales.orders_items

```
CREATE TABLE sales.order_items(
        order_id INT,
        item_id INT,
        product_id INT NOT NULL,
        quantity INT NOT NULL,
        list_price DECIMAL (10, 2) NOT NULL,
        discount DECIMAL (4, 2) NOT NULL DEFAULT 0,
        PRIMARY KEY (order_id, item_id),
        FOREIGN KEY (order_id)
        REFERENCES sales.orders (order_id)
        ON DELETE CASCADE ON UPDATE CASCADE,
        FOREIGN KEY (product_id)
        REFERENCES production.products (product_id)
        ON DELETE CASCADE ON UPDATE CASCADE
);
```

Table production.stocks

production.stocks stores inventory information, namely the quantity of a particular product in stock.shop certain. Following this is the detail source code for make table production.stocks

```
CREATE TABLE production.stocks (
        store_id INT,
        product_id INT,
        quantity INT,
        PRIMARY KEY (store_id, product_id),
        FOREIGN KEY (store_id)
        REFERENCES sales.stores (store_id)
        ON DELETE CASCADE ON UPDATE CASCADE,
        FOREIGN KEY (product_id)
        REFERENCES production.products (product_id)
        ON DELETE CASCADE ON UPDATE CASCADE
);
```

Task

1. Please run the query source code on file number two to your SQL Server. This source code functioning For make database shop bicycle with details Which Already explained in the previous explanation.

Capture hasil running source setup yang terbentuk contoh

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2. Please insert 1 new data in **the sales.customers table** where the details are Name, number telephone, And e-mail equated with data self You. Capture source code And results insert You

Copy/paste source TSQL You here
Capture data results insert You here

3. Show all over column from **table sales.customers** with provision letter beginningin Name front they The same with Name front You Then sort based on the largest customer_id first and display only 10 top data. Capture source code and results SELECT You

Example results :

customer_id	first_name	last_name	phone	email	street	city	state	zip_code
1446	Annisa	Puspa	(0341) 654321	puspakirana@polinema@ac.id	Jalan Sukarno Hatta	Malang	Jawa Timu	65122
1412	Adrien	Hunter	NULL	adrien.hunter@yahoo.com	720 Thompson Lane	Rego Park	NY	11374
1399	Angelika	Perry	NULL	angelika.perry@msn.com	7684 South Branch Drive	Canandaigua	NY	14424
1354	Alexandria	Zamora	NULL	alexandria.zamora@yahoo.com	95 Cherry Circle	Schenectady	NY	12302
1353	Agatha	Daniels	NULL	agatha.daniels@yahoo.com	125 Canal St.	South El Monte	CA	91733
1350	Annett	Rush	NULL	annett.rush@hotmail.com	758 Fordham Lane	Rosedale	NY	11422
1345	Arie	Hunter	NULL	arie.hunter@msn.com	66 Old State Rd.	Flushing	NY	11354
1334	Ashleigh	Finch	NULL	ashleigh.finch@yahoo.com	82 Hudson Court	Newburgh	NY	12550
1324	Arla	Ellis	NULL	arla.ellis@yahoo.com	127 Crescent Ave.	Utica	NY	13501
1322	Ai	Forbes	NULL	ai.forbes@yahoo.com	254 Central St.	Franklin Square	NY	11010

Copy/paste source TSQL You here
Capture results running TSQL You

4. Write it down order SELECT between 2 table. Show column product_id, product_name, list_price from the production.products table and category name columnfrom table production.categories. Change it appearance Name the column so that column product_id become id_product, product_name become product name, category_name becomes category, list_price becomes price. The data displayedis a product that has a price greater than or equal to 1000 and sort by smallest product_id. Please do it using order **JOIN**.

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Example results :

id_produk	nama_produk	kategori	harga
4	Trek Fuel EX 8 29 - 2016	Mountain Bikes	2899.99
5	Heller Shagamaw Frame - 2016	Mountain Bikes	1320.99
7	Trek Slash 8 27.5 - 2016	Mountain Bikes	3999.99
8	Trek Remedy 29 Carbon Frameset - 2016	Mountain Bikes	1799.99
9	Trek Conduit+ - 2016	Electric Bikes	2999.99
10	Surly Straggler - 2016	Cyclocross Bicycles	1549.00
11	Surly Straggler 650b - 2016	Cyclocross Bicycles	1680.99
28	Surly Karate Monkey 27.5+ Frameset - 2017	Mountain Bikes	2499.99
31	Surly Wednesday - 2017	Mountain Bikes	1632.99

…etc

Copy/paste source TSQL You here
Capture results running TSQL You

5. Based on question number 4 Please show data after 7 line First Andshow only 9 data only
   Example results :

id_produk	nama_produk	kategori	harga
28	Surly Karate Monkey 27.5+ Frameset - 2017	Mountain Bikes	2499.99
31	Surly Wednesday - 2017	Mountain Bikes	1632.99
39	Trek Stache 5 - 2017	Mountain Bikes	1499.99
40	Trek Fuel EX 9.8 29 - 2017	Mountain Bikes	4999.99
41	Haro Shift R3 - 2017	Mountain Bikes	1469.99
42	Trek Fuel EX 5 27.5 Plus - 2017	Mountain Bikes	2299.99
43	Trek Fuel EX 9.8 27.5 Plus - 2017	Mountain Bikes	5299.99
46	Haro SR 1.3 - 2017	Mountain Bikes	1409.99
47	Trek Remedy 9.8 - 2017	Mountain Bikes	5299.99

Copy/paste source TSQL You here
Capture results running TSQL You