CREATE TABLE customers

(

customer\_id INT IDENTITY (1, 1) PRIMARY KEY,

first\_name VARCHAR(30) NOT NULL,

last\_name VARCHAR(35) NOT NULL,

phone\_number VARCHAR(20) NOT NULL,

district VARCHAR(15) NOT NULL,

street VARCHAR(25) NOT NULL,

house INT NOT NULL,

apartment INT NOT NULL);

INSERT INTO customers(first\_name, last\_name, phone\_number, district, street, house, apartment) VALUES

('Penny', 'Smith', '+ 1 416 572 3771', 'South', 'First Avenue', 1, 10),

('Randy', 'Brown', '+ 1 416 568 8452', 'West', 'Spring St', 2, 35),

('Oliver', 'Thompson', '+ 1 416 782 5648', 'East', 'Five Avenue', 77, 14),

('James', 'Twist', '+ 1 416 752 1224', 'South', 'Corn St', 24, 89),

('Hellen', 'Bellora', '+ 1 416 555 4568', 'South', 'First Avenue', 11, 85),

('Kate', 'Evans', '+ 1 416 321 3211', 'West', 'Spring St', 123, 52),

('Jennifer', 'Radriges', '+ 1 416 321 1232', 'West', 'Roll St', 76, 44),

('Mario', 'Gordon', '+ 1 416 122 4554', 'East', 'Five Avenue', 21, 91),

('Bella', 'Lorenson', '+ 1 416 758 1667', 'North', 'Green Avenue', 23, 67),

('Erica', 'Visputchu', '+ 1 416 765 8582', 'South', 'First Avenue', 62, 44),

('Henry', 'Smith', '+ 1 416 657 5528', 'South', 'Brown St', 15, 56),

('Oscar', 'Rild', '+ 1 416 624 3643', 'South', 'First Avenue', 5, 13),

('William', 'Frankston', '+ 1 416 303 8181', 'North', 'Cascade Rd', 18, 88),

('Peter', 'Hall', '+ 1 416 466 7562', 'North', 'Cascade Rd', 17, 7),

('Ada', 'Watson', '+ 1 416 114 7812', 'South', 'Elma St', 18, 9);

CREATE TABLE orders (

order\_id INT PRIMARY KEY NOT NULL,

customer\_id INT NOT NULL,

date\_get DATETIME,

FOREIGN KEY (customer\_id) REFERENCES customers (customer\_id));

--the time when orders are goten from customers

INSERT INTO orders (order\_id, customer\_id , date\_get) VALUES

(1, 1, '2021-02-26T17:31:42'),

(2, 2, '2021-02-26T17:33:07'),

(3, 3, '2021-02-26T17:33:55'),

(4, 4, '2021-02-26T17:34:13'),

(5, 5, '2021-02-26T17:34:34'),

(6, 6, '2021-02-26T17:36:14'),

(7, 7, '2021-02-26T17:38:00'),

(8, 8, '2021-02-26T17:38:24'),

(9, 9, '2021-02-26T17:38:34'),

(10, 10, '2021-02-26T17:40:21'),

(11, 11, '2021-02-26T17:41:18'),

(12, 12, '2021-02-26T17:41:31'),

(13, 13, '2021-02-26T17:42:07'),

(14, 14, '2021-02-26T17:43:18'),

(15, 15, '2021-02-26T17:45:12');

CREATE TABLE courier\_info

(courier\_id INT IDENTITY (1, 1) PRIMARY KEY NOT NULL,

first\_name VARCHAR(30) NOT NULL,

last\_name VARCHAR(35) NOT NULL,

phone\_number VARCHAR(20) NOT NULL,

delivery\_type VARCHAR(5) NOT NULL);

CREATE TABLE delivery\_list

(

delivery\_id INT IDENTITY (1, 1) PRIMARY KEY NOT NULL,

order\_id INT UNIQUE NOT NULL,

courier\_id INT NOT NULL,

date\_arrived DATETIME,

--the time when couriers bring ordes to clients

Taken VARCHAR(3) NOT NULL, -- it means whether a client's taken its order or not

payment\_method VARCHAR(4),

FOREIGN KEY (order\_id) REFERENCES orders(order\_id),

FOREIGN KEY (courier\_id) REFERENCES courier\_info(courier\_id));

INSERT INTO delivery\_list VALUES

(1, 3, '2021-02-26T17:59:15', 'Yes', 'Cash'),

(2, 4, '2021-02-26T18:01:05', 'Yes', 'Card'),

(3, 1, '2021-02-26T18:04:36', 'Yes', 'Cash'),

( 4, 2, '2021-02-26T18:03:11', 'Yes', 'Cash'),

( 5, 1, '2021-02-26T18:19:56', 'Yes', 'Cash'),

( 6, 3, '2021-02-26T18:18:44', 'Yes', 'Card'),

(7, 2, '2021-02-26T18:50:11', 'No', 'NULL'), --the order's arrived too late

(8, 4, '2021-02-26T18:35:07', 'Yes', 'Card'),

(9, 4, '2021-02-26T18:58:28', 'NO', 'NULL'), --the order's arrived too late

( 10, 3, '2021-02-26T18:36:51', 'Yes', 'Card'),

( 11, 2, '2021-02-26T19:10:34', 'Yes', 'Cash'),

( 12, 1, NULL, 'NO', 'NULL'), --the products are out of stock

( 13, 2, '2021-02-26T19:17:04', 'Yes', 'Cash'),

( 14, 3, '2021-02-26T18:56:17', 'Yes', 'Card'),

( 15, 4, '2021-02-26T19:05:29', 'Yes', 'Card');

1. Покажите полный список клиентов

SELECT \* FROM customers ;

2. Покажите список доставок оплаченных наличными

SELECT \*

FROM Delivery\_list

WHERE payment\_method = 'Cash';

3. Покажите список доставок, полученных после 19:00

SELECT delivery\_id, date\_arrived

FROM Delivery\_list

WHERE date\_arrived > '2021-02-26T19:00:00' and date\_arrived is not null ;

4. Покажите фамилию и имя клиентов, проживающих на севере по улице

‘Cascade Rd’

SELECT customers. First\_name, customers. Last\_name FROM customers

WHERE EXISTS

(SELECT \* FROM Customers WHERE street = 'Cascade Rd' AND district IN ('North'));

5. Покажите список доставок, которые оплачены картой, но не доставлены.

SELECT \* FROM delivery\_list

WHERE taken NOT IN ('Yes') AND payment\_method = 'Cash';

6. Покажите список клиентов, проживающих либо на востоке, либо на юге

SELECT \* FROM Customers

WHERE district IN ('South') or district IN ('East');

7. Вывести id клиента чей заказ не получен

SELECT \* FROM delivery\_list

WHERE taken NOT IN ('Yes');

8. Вывести номера телефонов, клиентов которые оплачивали доставку картой

SELECT customer\_id, phone\_number FROM customers

INNER JOIN delivery\_list

ON customers.customer\_id = delivery\_list.delivery\_id

WHERE payment\_method = 'Card';