CREATE TABLE customer (  
customer\_id int unique not null primary key ,  
customer\_fname VARCHAR(256) NOT NULL,  
customer\_lname VARCHAR(256) NOT NULL,  
customer\_birthdate varchar(256),  
customer\_gender varchar(256),  
customer\_email varchar(256) NOT NULL,  
customer\_country varchar(256) NOT NULL,  
customer\_address varchar(256) NOT NULL  
);  
  
  
CREATE TABLE store (  
store\_id int unique NOT NULL primary key ,  
store\_address varchar(256) NOT NULL,  
store\_country varchar(256) NOT NULL  
);  
  
CREATE TABLE shipping\_service (  
ship\_id int unique not null primary key ,  
ship\_name varchar(256),  
store\_id int not null  
);  
  
CREATE TABLE payment\_methods (  
card\_id int unique not null primary key ,  
card\_number INT,  
customer\_id int not null  
 );  
  
CREATE TABLE salesman (  
salesman\_id int unique not null primary key ,  
salesman\_fname VARCHAR(256) NOT NULL,  
slaesman\_lname VARCHAR(256) NOT NULL,  
store\_id int not null  
);  
 CREATE TABLE product (  
product\_id int unique not null primary key ,  
product\_name varchar(256),  
product\_brand varchar(256),  
product\_price INT,  
product\_description TEXT,  
salesman\_id int references salesman(salesman\_id),  
ship\_id int not null references shipping\_service(ship\_id),  
cumtomer\_id int not null,  
store\_id int not null,  
sold\_in\_2019 int not null,  
sold\_in\_2020 int not null,  
sold\_in\_2021 int not null  
);  
  
CREATE TABLE package (  
package\_id int unique not null primary key ,  
date\_delivered varchar(256),  
date\_ordered varchar(256),  
ship\_id int not null references shipping\_service(ship\_id),  
product\_id int not null references product(product\_id),  
customer\_id int not null references customer(customer\_id),  
date\_received varchar(256)  
);  
  
  
CREATE TABLE transaction (  
trans\_id int unique not null,  
customer\_id int not null,  
store\_id int not null,  
card\_id int not null  
);  
  
insert into transaction values  
(130, 1, 101, 60),  
(131, 21, 102, 81),  
(132, 17, 105, 76),  
(133, 4, 101, 63),  
(134, 9, 101, 68),  
(135, 11, 102, 70),  
(136, 2, 103, 61),  
(137, 15, 104, 74),  
(138, 10, 105, 69),  
(139, 18, 105, 77),  
(140, 20, 102, 79),  
(141, 3, 101, 62),  
(142, 14, 104, 73),  
(143, 12, 103, 71),  
(144, 5, 103, 64),  
(145, 16, 101, 75),  
(146, 19, 101, 78),  
(147, 6, 105, 65),  
(148, 8, 101, 67),  
(149, 7, 104, 66),  
(150, 13, 101, 72);  
  
insert into package values (1111, '07-08-2021','20-08-2021', 50, 111,1 ,'19-08-2021' ),  
(1112, '25-09-2021','14-10-2021' ,51, 112,15,'17-10-2021'),  
(1113, '16-10-2021', '30-10-2021',52, 111,10,'00-00-0000'),  
(1114, '11-10-2021','25-10-2021', 53, 114,4,'00-00-0000'),  
(1115, '19-06-2020','02-07-2020', 54, 113,2,'01-07-2020'),  
(1116, '02-03-2020','16-03-2020', 50, 113,16,'14-03-2020'),  
(1117, '30-11-2019','14-12-2019', 51, 111,8,'16-12-2019'),  
(1118, '04-07-2019','18-07-2019', 52, 118,3,'15-07-2019'),  
(1119, '15-11-2021','29-11-2021', 53, 119,14,'28-11-2021'),  
(1120, '11-09-2020','25-09-2020', 54, 125,7,'25-09-2020'),  
(1121, '30-01-2019','14-02-2019', 50, 121,13,'13-02-2019'),  
(1122, '21-02-2020','05-03-2020', 51, 125,9,'04-03-2020'),  
(1123, '23-04-2021','07-05-2021',52, 123,6,'05-05-2021'),  
(1124, '11-02-2021','25-02-2021', 53, 122,11,'25-02-2021'),  
(1125, '13-07-2020', '27-07-2020',54, 125,5,'29-07-2020'),  
(1126, '03-10-2021', '17-10-2021',50, 126, 12,'16-10-2021');  
  
  
insert into product values  
(111, ' Galaxy A32 64GB Black', 'Samsung', 119990 ,'Operating System: Android 11', 1005, 51,1,101 ,10 ,15,7),  
(112, ' Asus ROG Strix G15 Ryzen 7', 'Asus', 419990, 'AMD Ryzen 7 Processor Series', 1009, 51,16,109,21,23,11),  
(113, ' Lenovo V15 i3 1005G1', 'Lenovo', 274990,'Processor Series: Intel Core i3', 1001, 54,11,105,9,15,11),  
(114, 'Apple MacBook Air Retina M1', 'Apple', 679990,'Processor Series Apple M1', 1008, 52,13,107,30,21,5),  
(115, 'Huawei Mate 30 Pro 256GB Space Silver', 'Huawei', 349990, 'Operating System: Android 10', 1003, 51,7,102,10,6,9),  
(116, 'Apple Watch SE GPS', 'Apple', 154990,'Operating System:Watch OS', 1007, 51,4,104,18,13,10),  
(117, 'Realme 8 PRO', 'Realme', 149990,'Operating System:Android 11', 1003, 52,8,108,14,12,17),  
(118, 'Redmi 10 ', 'Redmi', 79990 ,'Operating System:Android 11', 1001, 52,10,101,9,15,13),  
(119, 'Vivo Y31', 'Vivo Y31', 94990, 'Operating System:Android 11', 1002, 54,3,109,21,19,7),  
(120, 'Монитор 21.5" Samsung LS22F350FHIX 1920х1080 16:9 TN 60ГЦ', 'Samsung', 69990, 'Interface:1x VGA, 1x HDMI', 1001, 51,13,101,9,11,15),  
(121, 'AirPods ', 'Apple', 10990, 'Connection typeWireless', 1005, 50,1,105,34,26,14),  
(122, ' Neo Game', 'Asus', 652890, 'Operating system DOS', 1004, 50,9,106,22,18,16),  
(123, 'Television 43" Samsung UE43T5300AUXCE LED FHD Smart', 'Samsung', 194990, 'technology:LED', 1004, 51,1,101,5,9,7),  
(124, 'Сase for MacBook Pro 16', 'Apple', 11290, 'Material:Polycarbonate', 1007, 53,14,109,28,21,18),  
(125, 'Drone DJI Mavic Mini SE Fly More Combo', 'Samsung', 227990, 'Stabilization Three-axis', 1003, 54,5,109,6,10,8),  
(126, 'DSLR camera Canon EOS 2000D EF-S 18-55 III', 'Lenovo', 189990, 'Autofocus type: Phase', 1009, 50,2,108,7,6,0);  
  
insert into salesman values  
(1001, 'Lena', 'Smith', 108),  
(1002, 'Nicol', 'Green', 102),  
(1003, 'Tom', 'Taylor', 105),  
(1004, 'Paul', 'Miller', 104),  
(1005, 'Alen', 'Lee', 106),  
(1006, 'David', 'King', 109),  
(1007, 'Jone', 'Smith', 107),  
(1008, 'Obmar', 'Wood', 102),  
(1009, 'Mia', 'Law', 103);  
  
  
insert into payment\_methods values (60, 123456789, 1),  
(61, 518542008, 2),  
(62, 123456788, 3),  
(63, 518642018, 4),  
(64, 654321098, 5),  
(65, 541254545, 6),  
(66, 541354555, 7),  
(67, 518742419, 8),  
(68, 345629384, 9),  
(69, 102738501, 10),  
(70, 461938502, 11),  
(71, 462038512, 12),  
(72, 102838511, 13),  
(74, 638418399, 14),  
(75, 674782828, 15),  
(76, 143674482, 16),  
(77, 477328932, 17),  
(78, 467250501, 18),  
(79, 300135165, 19),  
(80, 153650041, 20),  
(81, 428820042, 21);  
  
  
insert into shipping\_service values  
(50, 'Kazpost',101),  
(51, 'Rika',102),  
(52, 'Post Express', 105),  
(53, 'Postnet', 109),  
(54, 'Pony Express' , 104);  
  
 insert into store values  
(101,'st.Sarykol', 'Nur-Sultan'),  
(102, 'st.Gagarin', 'Shymkent'),  
(103, 'st.Myzy', 'Oskemen'),  
(104, 'st.Tauke Khan', 'Taraz'),  
(105, 'st.Satpayev', 'Almaty'),  
(106, 'st.Ryskulov', 'Semey'),  
(107, 'st.Abay', 'Atyrau'),  
(108, 'st.Mukhit', 'Uralsk'),  
(109, 'st.Markaska', 'Karagandy');  
  
  
insert into customer values  
 (1, 'Abenova', 'Bulbul', '05-08-2003', 'Female', 'abenova\_b@mail.ru', 'Taraz', 'st.Adambaeva'),  
(2, 'Gaziz', 'Aida', '06-02-2003', 'Female', 'agaziz157@mail.ru', 'Uralsk', 'st.Nazarbaev'),  
(3, 'Bekzhigit', 'Symbat', '20-12-2002', 'Female', 'bekzhigit\_s@mail.ru', 'Shymkent', 'st.Kazybek bi'),  
(4, 'Bakhova', 'Aruzhan', '04-12-2003', 'Female', 'bakhova\_a@mail.ru', 'Nur-Sultan', 'st.Shalkyma'),  
(5, 'Lesken', 'Asylnur', '10-02-2002', 'Female', 'lesken\_a@mail.ru', 'Oskemen', 'st.Zhukov'),  
(6, 'Turarova', 'Zhansaya', '27-10-2001', 'Female', 'turarova\_zh@mail.ru', 'Oskemen', 'st.Sogrinskaya'),  
(7, 'Tabilov', 'Nurmakhan', '17-03-2001', 'Male', 'tabilov\_n@mail.ru', 'Nur-Sultan', 'st.Zheruiyk'),  
(8, 'Kuzbaeva', 'Yerkezhan', '26-02-2003', 'Female', 'kuzbaeva\_y@mail.ru', 'Nur-Sultan', 'st.Dostyk'),  
(9, 'Kanapiya', 'Daulet', '29-06-2003', 'Male', 'kanapiya\_d@mail.ru', 'Nur-Sultan', 'st.Saraishyk'),  
(10, 'Kaharman', 'Ayala', '27-07-2002', 'Female', 'kaharman\_a@mail.ru', 'Almaty', 'st.Zhubanov');  
insert into customer values  
(11, 'Sapenova', 'Aida', NULL, NULL, 'sapenova\_a@mail.ru', 'Nur-Sultan', 'st.Baiyrkum'),  
(12, 'Shametov', 'Arman', NULL, NULL, 'shametov\_a@mail.ru', 'Shymkent', 'st.Zhibek Zholy'),  
(13, 'Tumabekova', 'Aruzhan', NULL, NULL, 'tumabekova\_a@mail.ru', 'Taraz', 'st.Askarov'),  
(14, 'Skezhanov', 'Arman', NULL, NULL, 'skezhanov\_a@mail.ru', 'Semey', 'st.Abay'),  
(15, 'Tynymova', 'Arina', NULL, NULL, 'tynymova\_a@mail.ru', 'Nur-Sultan', 'st.Daraboz'),  
(16, 'Sagyngaliyev', 'Kuanyshbek', NULL, NULL, 'sagyngaliyev\_k@mail.ru', 'Atyrau', 'st.Kurmangazy'),  
(17, 'Kiyasov', 'Sanzhar', NULL, NULL, 'kiyasov\_s@mail.ru', 'Nur-Sultan', 'st.Syganak'),  
(18, 'Jumaniyazova', 'Ademi', NULL, NULL, 'jumaniyazova\_a@mail.ru', 'Uralsk', 'st.Almatinskaya'),  
(19, 'Kairula', 'Madina', NULL, NULL, 'kairula\_m@mail.ru', 'Karagandy', 'st.Abay'),  
(20, 'Kadyrova', 'Nazira', NULL, NULL, 'kadyrova\_n@mail.ru', 'Semey', 'st.Potanin'),  
(21, 'Nurgaliyeva', 'Malika', NULL, NULL, 'nurgaliyeva\_m@mail.ru', 'Karagandy', 'st.Mailin');  
---1  
select package\_id,cumtomer\_id ,customer\_lname,customer\_fname,customer\_address,customer\_country,customer\_email ,product\_name from  
customer,package,product where package.date\_received = '00-00-0000' and  
package.customer\_id =customer.customer\_id and package.product\_id =product.product\_id;  
  
UPDATE package set date\_delivered = '01-11-2021', date\_ordered='15-11-2021',date\_received='null' where  
date\_received ='00-00-0000';  
  
  
--- 2  
select customer\_fname,customer\_lname, product\_price from customer,product,package where  
product.product\_id = package.product\_id and customer.customer\_id = package.customer\_id and  
date\_part('year', package.date\_delivered) = 2021 order by product\_price desc limit 1;  
  
  
---3  
select distinct product\_name , product\_price from product ,package where  
product.product\_id = package.product\_id and date\_part('year', package.date\_delivered) = 2020 limit 2 ;  
  
---4  
select product\_id ,product\_name ,product\_price ,sold\_in\_2019 from product order by sold\_in\_2019 desc limit 2;  
  
---5  
select product\_id,product\_name from product ,store where  
store.store\_country ='Nur-Sultan' and product.store\_id !=store.store\_id;  
  
---6  
select package\_id,product\_name,date\_ordered,date\_received from package,product where  
package.product\_id =product.product\_id and date\_received != '00-00-0000' and date\_ordered < package.date\_received;