CREATE QUERIES FOR OUR DATA MODEL:

CREATE TABLE BRAND(
BRAND_ID VARCHAR(25) NOT NULL, BRAND_NAME VARCHAR(30) NOT NULL, PRIMARY KEY
(BRAND_ID)

);

CREATE TABLE PRODUCT(
PRODUCT_ID VARCHAR(25) NOT NULL,
BRAND_ID VARCHAR(25) NOT NULL,
PRIMARY KEY (PRODUCT_ID),
FOREIGN KEY (BRAND_ID) REFERENCES BRAND(BRAND_ID)

);

create table INVENTORY (
PRODUCT_ID VARCHAR(25) NOT NULL,
INTERNAL_STORAGE VARCHAR(10) NOT NULL,
COLOR VARCHAR(25) NOT NULL,
PHONE_NAME VARCHAR(25) NOT NULL,
OPERATING_SYSTEM VARCHAR(25) NOT NULL,
RELEASE_YEAR VARCHAR(4) NOT NULL,
PRIMARY KEY (PRODUCT_ID),
FOREIGN KEY(PRODUCT_ID) REFERENCES PRODUCT(PRODUCT_ID));

create table ADDRESS(
ADDRESS_ID BIGINT NOT NULL, ADDRESS_NAME VARCHAR(25) NOT NULL,

ADDRESS_NUMBER SMALLINT,
ZIPCODE INT NOT NULL, AUTONOMOUS_COMMUNITY VARCHAR(25), CITY VARCHAR(25),

PROVINCE VARCHAR(25), PRIMARY KEY (ADDRESS_ID));

CREATE TABLE LOCATION(
LOCATION_ID VARCHAR(25) NOT NULL,
LOCATION_TYPE VARCHAR(15) NOT NULL,
ADDRESS_ID BIGINT NOT NULL,
PRIMARY KEY (LOCATION_ID),
FOREIGN KEY (ADDRESS_ID) REFERENCES ADDRESS(ADDRESS_ID));

CREATE TABLE STORE (
STORE_ID VARCHAR(25) NOT NULL,
LOCATION_ID VARCHAR(25) NOT NULL,
PRIMARY KEY (STORE_ID),
FOREIGN KEY (LOCATION_ID) REFERENCES LOCATION(LOCATION_ID));

CREATE TABLE SALESPERSON (EMPLOYEE_ID VARCHAR(25) NOT NULL, FIRST_NAME VARCHAR(25)
NOT NULL, MIDDLE_NAME VARCHAR(25), LAST_NAME VARCHAR(25) NOT NULL, BIRTHDATE
TIMESTAMP NOT NULL, SALARY DECIMAL(20,5) NOT NULL, PRIMARY KEY (EMPLOYEE_ID)
);

```sql
CREATE TABLE CARD_TYPE( CARD_TYPE VARCHAR(4) NOT NULL, CCDESCRIPTION VARCHAR(20),
PRIMARY KEY (CARD_TYPE)
);

CREATE TABLE PAYMENT_STATUS ( PAYMENT_STATUS VARCHAR(2) NOT NULL,
PAYMENT_DESCRIPTION VARCHAR(12), PRIMARY KEY (PAYMENT_STATUS)

);

CREATE TABLE PAYMENT (
PAYMENT_ID VARCHAR(25) NOT NULL,
DATETIME_CREATED DATETIME NOT NULL,
PAYMENT_STATUS VARCHAR(2) NOT NULL,
CARD_TYPE VARCHAR(4) NOT NULL,
CARD_NUMBER_ENCRYPTED VARCHAR(25) NOT NULL,
CVV_ENCRYPTED VARCHAR(4) NOT NULL,
NAME_ON_CARD VARCHAR(25) NOT NULL,
PRIMARY KEY (PAYMENT_ID),
FOREIGN KEY(PAYMENT_STATUS) REFERENCES PAYMENT_STATUS(PAYMENT_STATUS), FOREIGN
KEY(CARD_TYPE) REFERENCES CARD_TYPE(CARD_TYPE)
);

CREATE TABLE TICKET (
TICKET_ID BIGINT NOT NULL,
TIMEPLACED TIMESTAMP NOT NULL,
EMPLOYEE_ID VARCHAR(25) NOT NULL,
TOTAL_PRODUCTS DECIMAL(10,2) NOT NULL,
TOTAL_TAX_AMOUNT DECIMAL(10,2),
TOTAL_ORDER_AMOUNT DECIMAL(10,2) NOT NULL,
CURRENCY VARCHAR(3) NOT NULL,
PAYMENT_ID VARCHAR(25) NOT NULL,
STORE_ID VARCHAR(25) NOT NULL,
PRIMARY KEY (TICKET_ID),
FOREIGN KEY (STORE_ID) REFERENCES STORE(STORE_ID),
FOREIGN KEY (EMPLOYEE_ID) REFERENCES SALESPERSON(EMPLOYEE_ID), FOREIGN KEY
(PAYMENT_ID) REFERENCES PAYMENT(PAYMENT_ID));

CREATE TABLE TICKET_ITEM(
TICKET_ID BIGINT NOT NULL,
NUMSEQ SMALLINT NOT NULL,
PRODUCT_ID VARCHAR(25) NOT NULL,
QUANTITY SMALLINT NOT NULL,
PRODUCT_PRICE DECIMAL NOT NULL,
CURRENCY VARCHAR(3) NOT NULL,
PRIMARY KEY (TICKET_ID, NUMSEQ),
FOREIGN KEY (PRODUCT_ID) REFERENCES PRODUCT(PRODUCT_ID), FOREIGN KEY (TICKET_ID)
REFERENCES TICKET(TICKET_ID));
```

INSERT QUERIES FOR OUR DATA MODEL:

INSERT INTO SALESPERSON
(EMPLOYEE_ID, FIRST_NAME, MIDDLE_NAME, LAST_NAME, BIRTHDATE, SALARY) VALUES (781, 'Ivan',NULL, 'Lopez','1998-07-08',75500),
(782,'Nacho',NULL, 'Pire', '1995-06-25',76100),
(783, 'Ludovico', NULL, 'Gandolfi', '1997-09-27',73000),
(784,'Adrian', NULL, 'Ku', '1999-03-20', 65700),
(785, 'Priyanka', NULL, 'Jakka', '1993-05-13', 77000);

INSERT INTO ADDRESS VALUES
('101','Maria De Molina',31,28006,'Madrid','Madrid','Madrid'), ('102','Urbita Kalea',25,28006,'San Sebastian','Gipuzkoa','Basque Country'), ('103','Hispanidad',NULL,28042,'Madrid','Madrid','Madrid'), ('104','Seville',NULL,41007,'Seville','Seville','Andalucia'),
('105','Oscar Esplá',49,3007,'Alicante','Alicante','Valencia');

INSERT INTO LOCATION VALUES ('6010','Mall','101'), ('6011','Street','102'), ('6012','Airport','103'), ('6013','Station','104'), ('6014','Avenue','105');

INSERT INTO STORE VALUES ('581','6010'),
('582','6011'),
('583','6012'),

('584','6013'), ('585','6013'), ('586','6014');

INSERT INTO BRAND VALUES ('SAM1', 'SAMSUNG'), ('APP1', 'APPLE'), ('XIAOMI1', 'XIAOMI');

INSERT INTO PRODUCT VALUES ('A2894', 'APP1'),
('A2895', 'APP1'),
('A2896', 'APP1'),

('A2897', 'APP1'), ('SM-G793', 'SAM1'), ('SM-G793N','SAM1'), ('SUM-G793U', 'SAM1'), ('XM39028U', 'XIAOMI1'), ('XM29028S', 'XIAOMI1'), ('XM29028N', 'XIAOMI1');

INSERT INTO INVENTORY VALUES
('A2894','128', 'MIDNIGHT', 'iPhone 14 Pro Max 128GB', 'IOS', '2022'), ('A2895','256', 'RED', 'iPhone 14 Pro Max 256GB', 'IOS', '2022'),
('A2896', '128', 'PURPLE', 'iPhone 14 Pro 128GB', 'IOS', '2022'),
('A2897', '256', 'BLUE', 'iPhone 14 Pro 256GB', 'IOS', '2022'), ('SM-G793','128', 'GREEN', 'Samsung Galaxy S22', 'ANDROID', '2021'), ('SM-G793N','256','ORANGE','Samsung Galaxy Note11', 'ANDROID', '2021'), ('SUM-G793U','128','PURPLE', 'Samsung Galaxy S22U', 'ANDROID', '2021'), ('XM39028U','256','BLUE', 'Xiaomi 12 Ultra', 'ANDROID','2022'), ('XM29028S','128','GREEN', 'Xiaomi 12S', 'ANDROID', '2022'), ('XM29028N','256', 'MIDNIGHT', 'Xiaomi 12 Note', 'ANDROID', '2022');

INSERT INTO CARD_TYPE (CARD_TYPE, CCDESCRIPTION) VALUES ('MC','Master Card'),
('VC','Visa Card'),
('DS','Discover Card'),

('AM','American Express'), ('DC','Diners Club'),
('BK', 'Others Bank Cards');

```sql
INSERT INTO PAYMENT_STATUS (PAYMENT_STATUS, PAYMENT_DESCRIPTION) VALUES
('NW','New_Payment'),
('SU','Success'),
('AP','Approving'),

('F','Failed'), ('C','Cancelled'), ('E', 'Expired');

INSERT INTO PAYMENT (PAYMENT_ID, DATETIME_CREATED, PAYMENT_STATUS, CARD_TYPE,
CARD_NUMBER_ENCRYPTED, CVV_ENCRYPTED, NAME_ON_CARD) VALUES

('1001', '2022-06-05 ('1002', '2022-08-05 ('1003', '2022-12-09 ('1004', '2022-12-20 ('1005', '2022-12-
11 ('1006', '2022-12-22 ('1007', '2022-12-23 ('1008', '2022-12-24

INSERT INTO TICKET

13:28:00', 'SU','MC','543565785423xxxx','XXX','Jessica Alonzo'), 14:28:10',
'SU','VC','465789785412xxxx','XXX','Constante Noppers'), 10:45:00', 'F',
'DS','956123425417xxxx','XXX','Mikael Matsyuma'), 20:28:20',
'SU','DS','912356765419xxxx','XXX','Quy Kantola'),
21:28:50', 'SU','DS','923467825475xxxx','XXX','Norman Lutters'), 20:28:00',
'SU','MC','548126500674xxxx','XXX','Bao Aliyev'),
19:16:00', 'SU','MC','548126746911xxxx','XXX','Leokadia Yli-Hannuksela'), 18:28:50',
'SU','MC','548126109505xxxx','XXX','Valrie Kuester');

(TICKET_ID, TIMEPLACED, EMPLOYEE_ID, TOTAL_PRODUCTS, TOTAL_TAX_AMOUNT,
TOTAL_ORDER_AMOUNT, CURRENCY, PAYMENT_ID, STORE_ID)

VALUES
(981, '2022-05-06 13:28:00', '781', 2298.00, 482.58, 2780.58, 'EUR', '1001', '581'), (982, '2022-05-08
14:28:00', '782', 999.00, 209.79, 1208.79, 'EUR', '1002', '581'), (983, '2022-09-12 10:45:00', '783',
2179.00, 457.59, 2636.59, 'EUR', '1003', '582'), (984, '2022-12-20 20:28:00', '784', 1830.00, 384.30,
2214.30, 'EUR', '1004', '582'), (985, '2022-12-11 21:28:00', '785', 1000.00, 210.00, 1210.00, 'EUR',
'1005', '583'), (986, '2022-11-22 09:58:00', '782', 1360.00, 285.60, 1645.60, 'EUR', '1006', '586'), (987,
'2022-08-15 10:32:00', '781', 2398.00, 503.58, 2901.58, 'EUR', '1007', '585'), (988, '2022-06-03
13:22:00', '785', 2430.00, 510.30, 2940.30, 'EUR', '1008', '584');

INSERT INTO TICKET_ITEM (Ticket_ID, Currency)VALUES

( 981, 1, 'A2894', 1, 1099, 'EUR'),
( 981, 2, 'A2895', 1, 1199, 'EUR'),
( 982, 3, 'A2896', 1, 999, 'EUR'),
( 983, 4, 'A2897', 1, 1099, 'EUR'),
( 983, 5, 'SM-G793', 1, 680, 'EUR'),
( 983, 6, 'SM-G793N', 1, 400, 'EUR'),
( 984, 7, 'SUM-G793U', 1, 1020, 'EUR'), ( 984, 8, 'XM39028U', 1, 810, 'EUR'),

( 985, 9, 'XM29028S', 1, 505, 'EUR'),
( 985, 10, 'XM29028N', 1, 495, 'EUR'), ( 986, 11, 'SM-G793', 2, 680, 'EUR'),
( 987, 12, 'A2895', 2, 1199, 'EUR'),
( 988, 13, 'XM39028U', 3, 810, 'EUR');
```