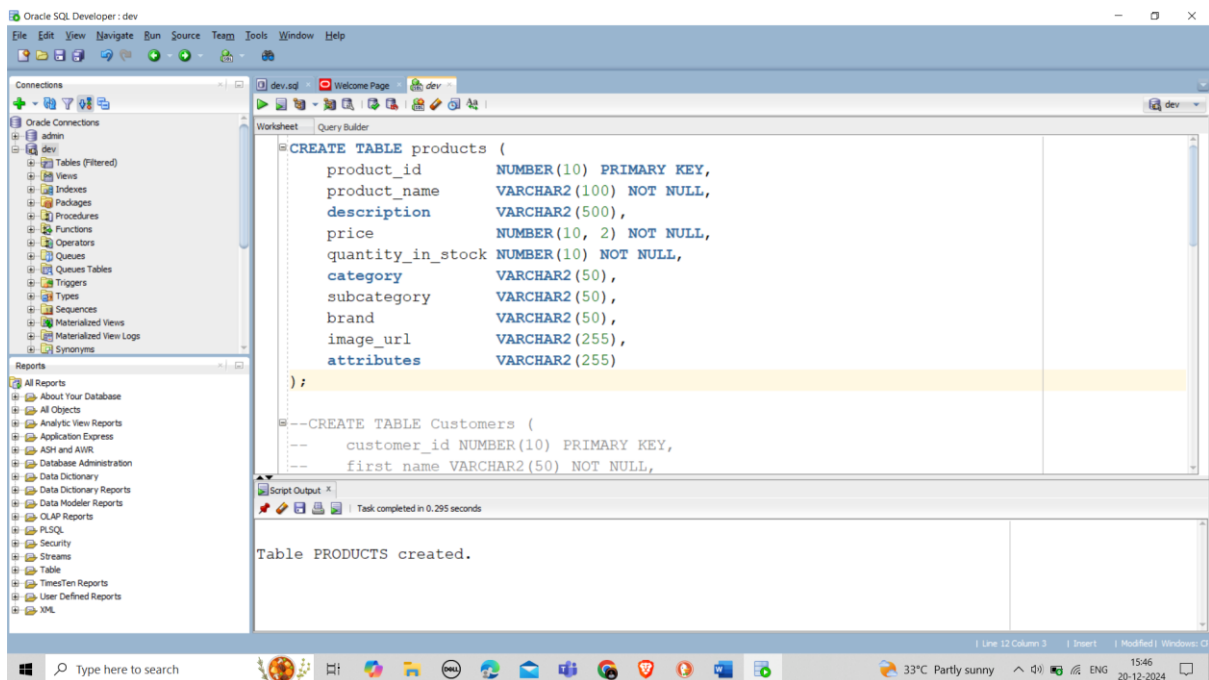


Firstly, we are creating a table **PRODUCT** with the constraints

```
CREATE TABLE products (  
    product_id    NUMBER(10) PRIMARY KEY,  
    product_name  VARCHAR2(100) NOT NULL,  
    description   VARCHAR2(500),  
    price         NUMBER(10, 2) NOT NULL,  
    quantity_in_stock NUMBER(10) NOT NULL,  
    category      VARCHAR2(50),  
    subcategory   VARCHAR2(50),  
    brand         VARCHAR2(50),  
    image_url     VARCHAR2(255),  
    attributes    VARCHAR2(255)  
);
```



Next, we are creating table CUSTOMERS

CREATE TABLE customers (

customer_id NUMBER(10) PRIMARY KEY,

first_name VARCHAR2(50) NOT NULL,

last_name VARCHAR2(50) NOT NULL,

email_address VARCHAR2(100) NOT NULL UNIQUE,

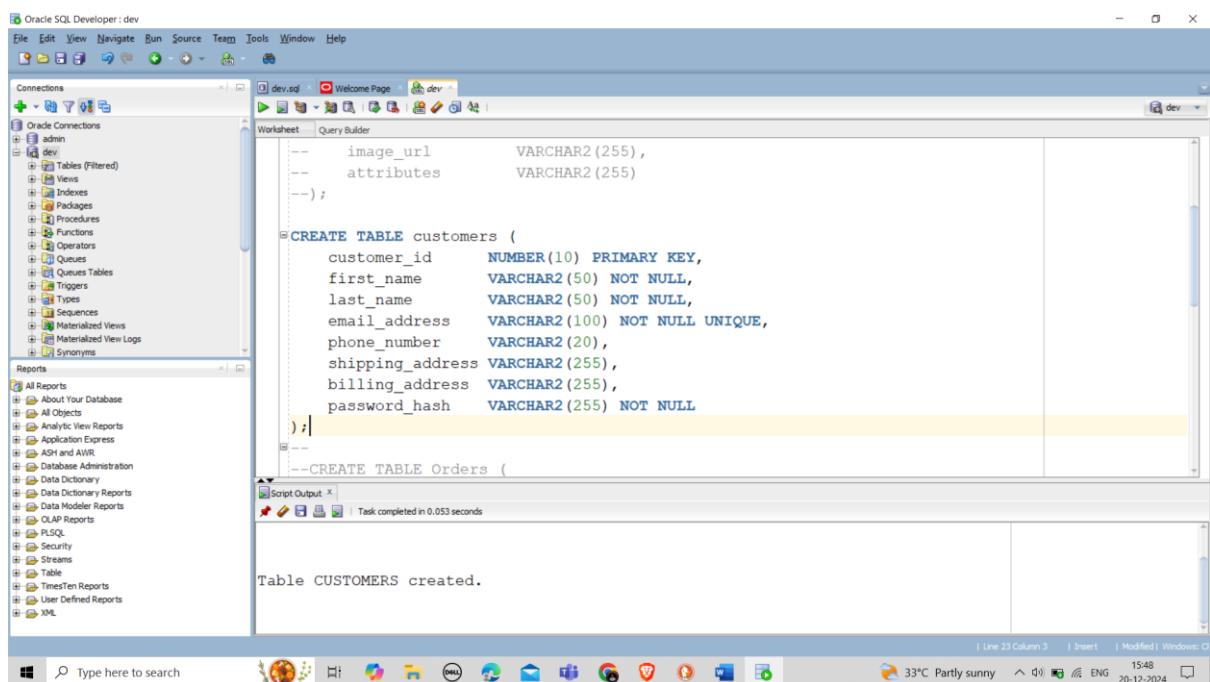
phone_number VARCHAR2(20),

shipping_address VARCHAR2(255),

billing_address VARCHAR2(255),

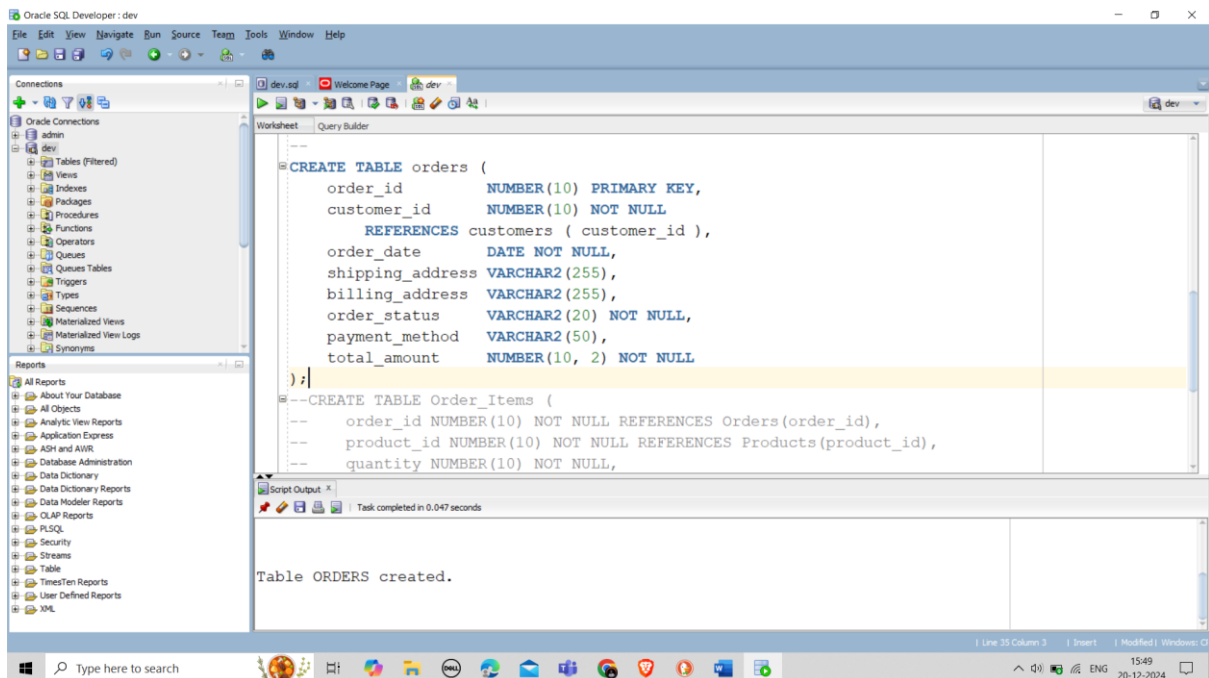
password_hash VARCHAR2(255) NOT NULL

);



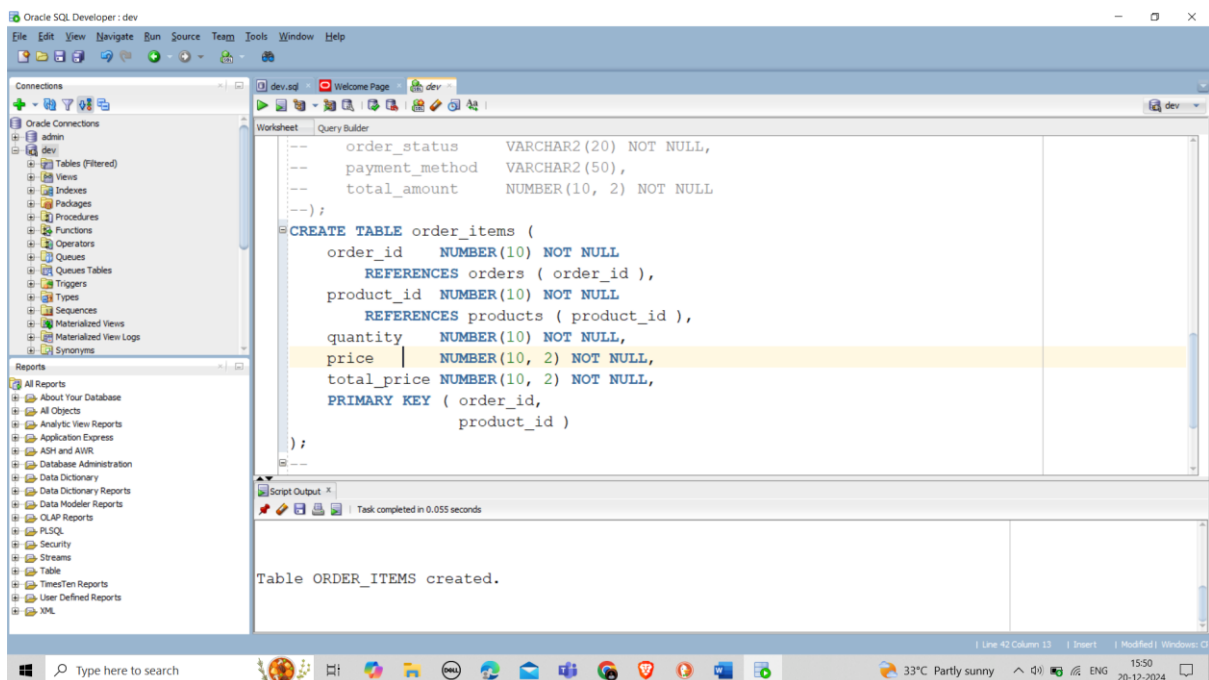
Next, we are creating table ORDERS

```
CREATE TABLE orders (  
    order_id      NUMBER(10) PRIMARY KEY,  
    customer_id   NUMBER(10) NOT NULL  
        REFERENCES customers ( customer_id ),  
    order_date    DATE NOT NULL,  
    shipping_address VARCHAR2(255),  
    billing_address VARCHAR2(255),  
    order_status  VARCHAR2(20) NOT NULL,  
    payment_method VARCHAR2(50),  
    total_amount  NUMBER(10, 2) NOT NULL  
);
```



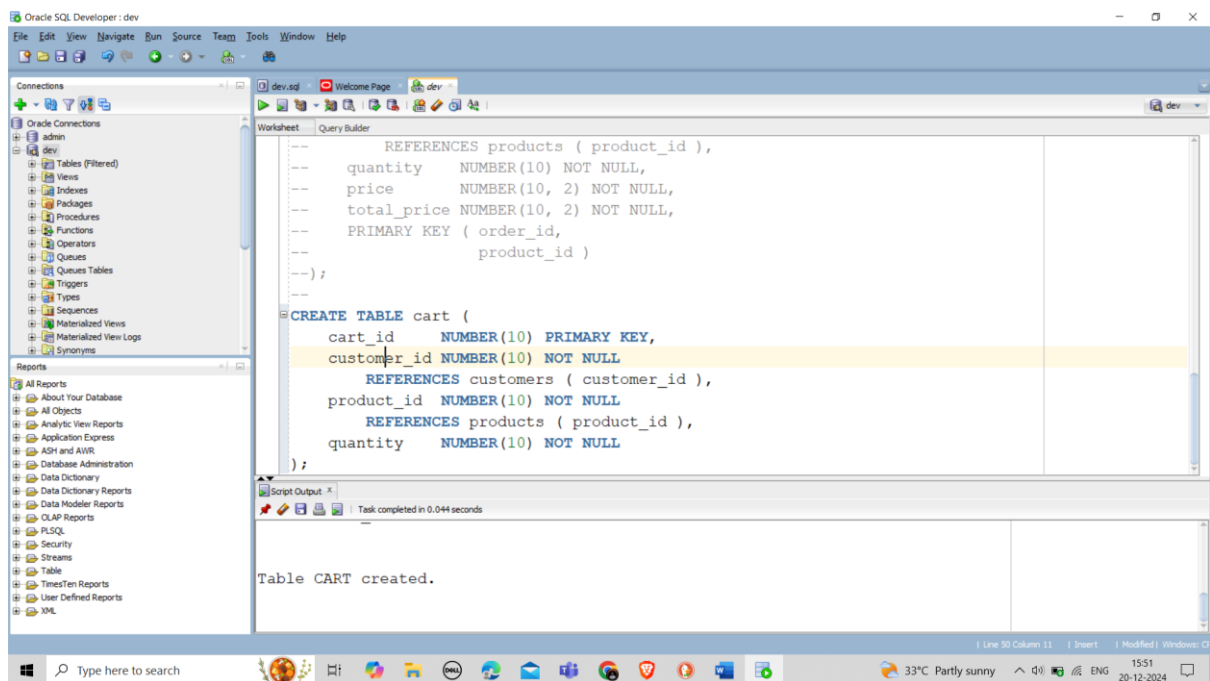
Next, we are creating table ORDER ITEMS

```
CREATE TABLE order_items (  
    order_id  NUMBER(10) NOT NULL  
        REFERENCES orders ( order_id ),  
    product_id NUMBER(10) NOT NULL  
        REFERENCES products ( product_id ),  
    quantity  NUMBER(10) NOT NULL,  
    price     NUMBER(10, 2) NOT NULL,  
    total_price NUMBER(10, 2) NOT NULL,  
    PRIMARY KEY ( order_id,  
                product_id )  
);
```



Next, we are creating table CART

```
CREATE TABLE cart (  
    cart_id    NUMBER(10) PRIMARY KEY,  
    customer_id NUMBER(10) NOT NULL  
        REFERENCES customers ( customer_id ),  
    product_id NUMBER(10) NOT NULL  
        REFERENCES products ( product_id ),  
    quantity   NUMBER(10) NOT NULL  
);
```



Inserting Values to table Products:

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Worksheet Query Builder

```
select * from products;
```

Script Output Query Result

All Rows Fetched: 20 in 0.005 seconds

	PRODUCT_ID	PRODUCT_NAME	DESCRIPTION	PRICE	QUANTITY_IN_STOCK	CATEGORY	SUBCATEGORY
1	1	iPhone 15 Pro Max	Latest flagship smartphone	1299.99	100	Electronics	Smartphone
2	2	Nike Air Max 90	Classic running shoes	119.99	50	Clothing	Shoes
3	3	Samsung Galaxy S24 Ultra	High-end Android smartphone	1199.99	80	Electronics	Smartphone
4	4	MacBook Pro 14"	Powerful laptop for professionals	1999.99	30	Electronics	Laptops
5	5	Sony PlayStation 5	Next-gen gaming console	499.99	20	Electronics	Gaming Con.
6	6	Adidas Ultraboost 23	Running shoes for comfort and performance	149.99	70	Clothing	Shoes
7	7	LG OLED C3 Series	Premium OLED TV	1499.99	50	Electronics	TVs
8	8	Nintendo Switch OLED	Portable gaming console	349.99	30	Electronics	Gaming Con.
9	9	Apple Watch Series 9	Smartwatch with advanced health features	399.99	80	Electronics	Wearables
10	10	Levi 501 Jeans	Classic denim jeans	79.99	100	Clothing	Jeans
11	11	Microsoft Surface Pro 9	Versatile 2-in-1 laptop	999.99	40	Electronics	Laptops
12	12	Bose QuietComfort Earbuds II	Noise-canceling earbuds	279.99	60	Electronics	Audio
13	13	Canon EOS R8	Professional mirrorless camera	1799.99	20	Electronics	Cameras
14	14	Apple iPad Pro 12.9"	High-performance tablet	1099.99	30	Electronics	Tablets
15	15	Ray-Ban Wayfarer Sunglasses	Classic sunglasses	150	100	Accessories	Eyewear
16	16	GoPro Hero11 Black	Action camera for extreme adventures	399.99	40	Electronics	Cameras
17	17	Fitbit Sense 2	Advanced smartwatch with health tracking	299.99	70	Electronics	Wearables
18	18	Dyson Air Purifier	High-performance air purifier	499.99	20	Home Appliances	Air Purifi
19	19	KitchenAid Stand Mixer	Versatile kitchen appliance	399.99	30	Home Appliances	Kitchen Ap
20	20	Keurig K-Mini Coffee Maker	Compact coffee maker	99.99	50	Home Appliances	Kitchen Ap

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Inserting Values to table customers:

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Worksheet Query Builder

```
select * from customers;
```

Script Output Query Result

All Rows Fetched: 10 in 0.002 seconds

	CUSTOMER_ID	FIRST_NAME	LAST_NAME	EMAIL_ADDRESS	PHONE_NUMBER	SHIPPING_ADDRESS	BILLING_ADDRESS
1	2	Jane	Smith	ianesmith@example.com	987-654-3210	456 Elm St, Anytown, CA 12345	456 Elm St, Anytown, CA 12345 h
2	1	John	Doe	iohndoe@example.com	123-456-7890	123 Main St, Anytown, CA 12345	123 Main St, Anytown, CA 12345 h
3	3	Michael	Johnson	michaelj@example.com	555-555-5553	456 Elm St, Anytown, CA 12345	456 Elm St, Anytown, CA 12345 h
4	4	Emily	Davis	emilyd@example.com	555-555-5554	789 Oak St, Anytown, CA 12345	789 Oak St, Anytown, CA 12345 h
5	5	David	Lee	davidl@example.com	555-555-5555	321 Pine St, Anytown, CA 12345	321 Pine St, Anytown, CA 12345 h
6	6	Sarah	Miller	sarahm@example.com	555-555-5556	123 Main St, Anytown, CA 12345	123 Main St, Anytown, CA 12345 h
7	7	Benjamin	Taylor	benjamint@example.com	555-555-5557	456 Elm St, Anytown, CA 12345	456 Elm St, Anytown, CA 12345 h
8	8	Olivia	Anderson	oliviana@example.com	555-555-5558	789 Oak St, Anytown, CA 12345	789 Oak St, Anytown, CA 12345 h
9	9	Noah	Thomas	noahth@example.com	555-555-5559	321 Pine St, Anytown, CA 12345	321 Pine St, Anytown, CA 12345 h
10	10	Ella	Hall	ellah@example.com	555-555-5560	123 Main St, Anytown, CA 12345	123 Main St, Anytown, CA 12345 h

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Inserting Values to table orders:

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Worksheet Query Builder

```
select * from orders;
```

Script Output x Query Result x

All Rows Fetched: 10 in 0.003 seconds

	ORDER_ID	CUSTOMER_ID	ORDER_DATE	SHIPPING_ADDRESS	BILLING...	ORDER_S...	PAYMENT...	TOTAL_A...
1	1006		3-02-01-24	456 Elm St, Anytown, C...	456...	Shi...	PayPal	799.99
2	1007		4-05-01-24	789 Oak St, Anytown, C...	789...	Del...	Cre...	299.99
3	1008		5-10-01-24	321 Pine St, Anytown, ...	321...	Pen...	Goo...	119...
4	1009		6-15-01-24	123 Main St, Anytown, ...	123...	Shi...	App...	399.99
5	1010		7-20-01-24	456 Elm St, Anytown, C...	456...	Del...	Deb...	999.99
6	1011		8-25-01-24	789 Oak St, Anytown, C...	789...	Pro...	PayPal	699.99
7	1012		9-30-01-24	321 Pine St, Anytown, ...	321...	Shi...	Cre...	499.99
8	1013		10-05-02-24	123 Main St, Anytown, ...	123...	Del...	Goo...	199.99
9	1014		1-10-02-24	123 Main St, Anytown, ...	123...	Pen...	App...	899.99
10	1015		2-15-02-24	456 Elm St, Anytown, C...	456...	Shi...	Deb...	299.99

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Inserting Values to table order_items:

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Worksheet Query Builder

```
select * from order_items;
```

Script Output x Query Result x

All Rows Fetched: 10 in 0.003 seconds

	ORDER_ID	PRODUCT_ID	QUANTITY	PRICE	TOTAL_PRICE
1	1006	6	2	79.99	159.98
2	1007	7	1	149.99	149.99
3	1008	8	1	1499.99	1499.99
4	1009	9	1	349.99	349.99
5	1010	10	1	399.99	399.99
6	1011	11	1	999.99	999.99
7	1012	12	2	279.99	559.98
8	1013	13	1	1799.99	1799.99
9	1014	14	1	1099.99	1099.99
10	1015	15	2	150	300

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Inserting Values to table cart:

The screenshot shows the Oracle SQL Developer interface. The main window displays a SQL query: `select * from cart;`. Below the query editor, the 'Query Result' tab is active, showing a table with 10 rows and 5 columns: `CART_ID`, `CUSTOMER_ID`, `PRODUCT_ID`, and `QUANTITY`. The status bar indicates 'All Rows Fetched: 10 in 0.003 seconds'.

	CART_ID	CUSTOMER_ID	PRODUCT_ID	QUANTITY
1	1	1	3	1
2	2	2	4	2
3	3	3	18	1
4	4	4	19	2
5	5	5	20	1
6	6	6	1	1
7	7	7	2	2
8	8	8	3	1
9	9	9	4	2
10	10	10	5	1