

## Test Report IAD Lab 11

Inserted Data:

We have two customers

3005	Hassan Raza	University Road	Peshawar	KP	25000	145
3006	Ali Raza	Clifton Block 2	Karachi	KP	75600	146

With same state: KP

5 New Products:

INSERT INTO product\_t

(Product\_Id, Product\_Line\_Id, Product\_Description, Product\_Finish, Standard\_Price)

VALUES

(9,1,'Gaming Chair','Black Leather',450),

(10,1,'Office Table','Oak Brown',600),

(11,2,'Bookshelf','White',300),

(12,2,'Study Lamp','Silver',80),

(13,3,'Wooden Cabinet','Dark Walnut',900)

## Orders for 3005 and 3006

INSERT INTO order\_t

(Order\_Id, Customer\_Id, Order\_Date)

VALUES

(5001,3005,GETDATE()),

(5002,3005,GETDATE()),

(5003,3005,GETDATE()),

(5004,3006,GETDATE()),

(5005,3006,GETDATE()),

(5006,3006,GETDATE())

Order Line : INSERT INTO order\_line\_t

(Order\_Id, Product\_Id, Ordered\_Quantity)

VALUES

-- CUSTOMER 3005

(5001,9,1), -- Gaming Chair

(5001,10,1), -- Office Table

(5002,9,1),

(5002,12,2), -- Study Lamp

(5003,10,1),

(5003,12,1),

-- CUSTOMER 3006

(5004,9,1), -- Gaming Chair

(5004,10,1),

(5005,9,1),

(5005,11,1), -- Bookshelf

(5006,10,1),

(5006,13,1) -- Cabinet

Note:

Because BOTH customers bought:

- Product 9
- product 10

So, When customer 3005 logs in:

system recommendations:

- Bookshelf (11)
- Cabinet (13)

because 3006 bought them.

And Also :

**And for 3006:**

system recommendations:

- Study Lamp (12)

because 3005 bought it.

So, lets test API First:

```
Send Request http://localhost:5270/dashboardRcmd/3005
1 GET http://localhost:5270/dashboardRcmd/3005
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

1 HTTP/1.1 200 OK
2 Connection: close
3 Content-Type: application/json; charset=utf-8
4 Date: Sun, 10 May 2026 08:20:39 GMT
5 Server: Kestrel
6 Transfer-Encoding: chunked
7
8 [
9   9,
10  10,
11  11,
12  13,
13  4
14 ]
```

Successfully Recommended products 11 and 13

Let's test manually All Products Bought by Customer 3006

```
SELECT distinct ol.Product_Id
FROM order_t o
JOIN order_line_t ol
  ON o.Order_Id = ol.Order_Id
WHERE o.Customer_Id = 3006;
```

Returned multiple data sets: **Set 1** , **Set 2** , **Set 3** , **Set 4** , **Set 5** , **Set 6**

**Set 1. Total rows: 5**

Product_Id
4
9
10
11
13

4,9,10,11,13 Same as recommended....






And Also, in application

9	1	Gaming Chair	Black Leather	450.00
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## Welcome Back Dear Customer

3005

### Products

 <p><b>Description:</b> Gaming Chair <b>Price:</b> 450.00</p> <p>Buy</p>	 <p><b>Description:</b> Office Table <b>Price:</b> 600.00</p> <p>Buy</p>	 <p><b>Description:</b> Bookshelf <b>Price:</b> 300.00</p> <p>Buy</p>	 <p><b>Description:</b> Wooden Cabinet <b>Price:</b> 900.00</p> <p>Buy</p>	 <p><b>Description:</b> Entertainment Center <b>Price:</b> 650.00</p> <p>Buy</p>
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Recommending Gaming Chair Product 9 as first ...

## Part2: Order Page Recommendations

### Frequently Bought Together

New Orders:

```
INSERT INTO order_t
```

```
(Order_Id, Customer_Id, Order_Date)
```

VALUES

```
(5007,3005,GETDATE()),
```

(5008,3006,GETDATE())

INSERT INTO order\_line\_t

(Order\_Id, Product\_Id, Ordered\_Quantity)

VALUES

(5007,9,1),

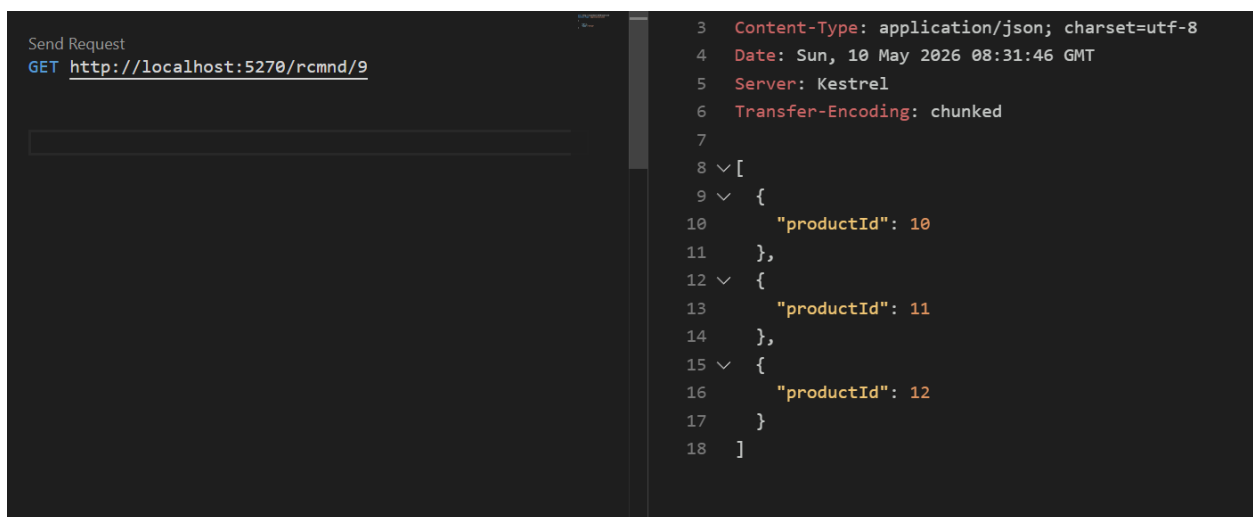
(5007,10,1),

(5008,9,1),

(5008,10,1)

Note : Made product 9 and 10 appear more together....

Lets test in Vs code:



The screenshot shows a REST client interface in VS Code. On the left, a request is defined: `GET http://localhost:5270/rcmd/9`. On the right, the response is displayed as a JSON array with three objects, each containing a `productId` property. The response headers are also visible.

```
3 Content-Type: application/json; charset=utf-8
4 Date: Sun, 10 May 2026 08:31:46 GMT
5 Server: Kestrel
6 Transfer-Encoding: chunked
7
8 [
9   {
10    "productId": 10
11  },
12  {
13    "productId": 11
14  },
15  {
16    "productId": 12
17  }
18 ]
```

Succesfully Recommended Product 10 for 9

And For 10

```
Send Request
GET http://localhost:5270/rcmd/10


3 Content-Type: application/json; charset=utf-8
4 Date: Sun, 10 May 2026 08:39:01 GMT
5 Server: Kestrel
6 Transfer-Encoding: chunked
7
8 [
9   {
10    "productId": 9
11  },
12  {
13    "productId": 12
14  },
15  {
16    "productId": 13
17  }
18 ]
```

Recommended 9....

And in Application Test




## Product Details




Product Description: Gaming Chair  
Product Price: 450.00


## Recommended Products



**Description:**  
Office Table  
**Price:** 600.00



**Description:**  
Bookshelf  
**Price:** 300.00



**Description:**  
Study Lamp  
**Price:** 80.00

For product Id: 9 (look in url)

It Recommended Office Table the Product with Id 10.

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