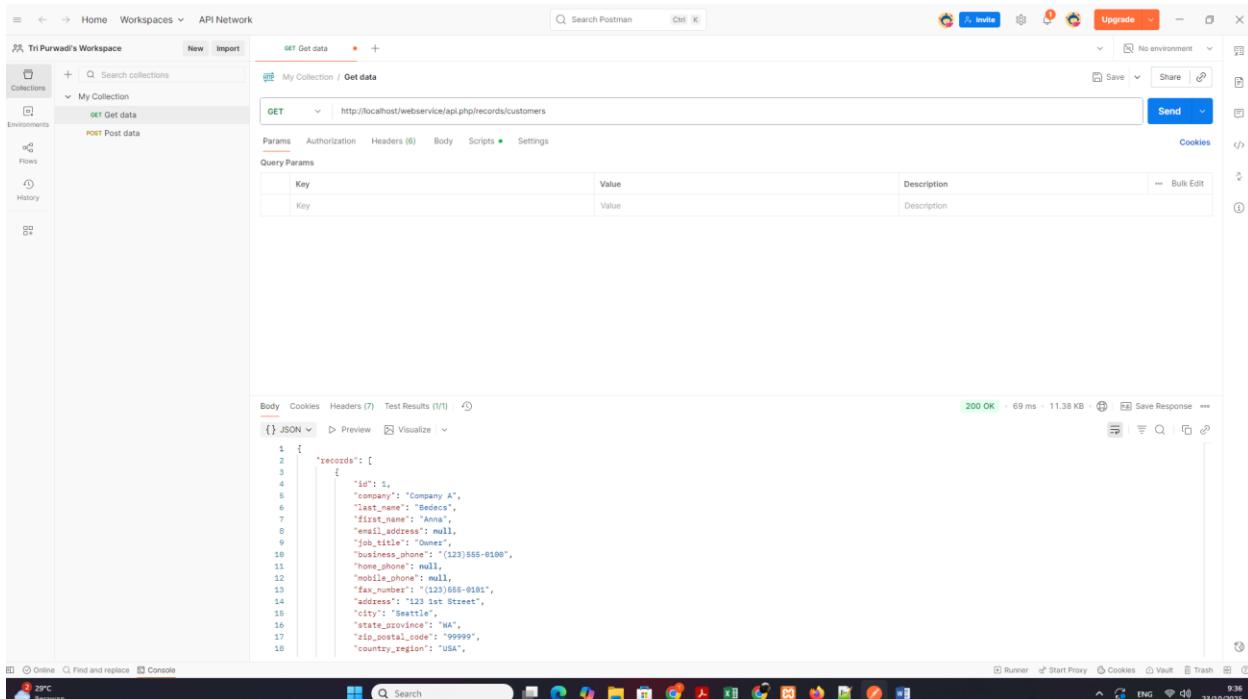


Nama Mahasiswa : TRI PURWADI

NIM : 24.01.55.7002

Judul Tugas : Php CRUD Api

## 1. Data Customer dari Aplikasi Postman



The screenshot shows the Postman application interface. On the left, there's a sidebar with 'Tri Purwadi's Workspace' and sections for Collections, Environments, Flows, and History. In the main area, a collection named 'My Collection' is selected. Under it, a 'GET Get data' request is listed with the URL 'http://localhost/webservice/api.php/records/customers'. The 'Params' tab is active, showing a single parameter 'Key' with 'Value'. Below the request, the 'Body' tab displays the JSON response:

```
{ "records": [ { "id": 1, "company": "Company A", "last_name": "Bedecs", "first_name": "Anna", "email_address": null, "job_title": "Owner", "business_phone": "(123)555-8100", "home_phone": null, "mobile_phone": null, "fax_number": "(123)555-0101", "address": "123 1st Street", "city": "Seattle", "state_province": "WA", "zip_postal_code": "99999", "country_region": "USA" } ] }
```

The response status is '200 OK' with a duration of '69 ms' and a size of '11.38 KB'. At the bottom, the taskbar shows various application icons.

### Hasil data :

```
{
  "records": [
    {
      "id": 1,
      "company": "Company A",
      "last_name": "Bedecs",
      "first_name": "Anna",
      "email_address": null,
      "job_title": "Owner",
      "business_phone": "(123) 555-0100",
      "home_phone": null,
      "mobile_phone": null,
      "fax_number": "(123) 555-0101",
      "address": "123 1st Street",
      "city": "Seattle",
      "state_province": "WA",
      "zip_postal_code": "99999",
      "country_region": "USA"
    }
  ]
}
```

```
        "country_region": "USA",
        "web_page": null,
        "notes": null,
        "attachments": ""
    },
{
    "id": 2,
    "company": "Company B",
    "last_name": "Gratacos Solsona",
    "first_name": "Antonio",
    "email_address": null,
    "job_title": "Owner",
    "business_phone": "(123) 555-0100",
    "home_phone": null,
    "mobile_phone": null,
    "fax_number": "(123) 555-0101",
    "address": "123 2nd Street",
    "city": "Boston",
    "state_province": "MA",
    "zip_postal_code": "99999",
    "country_region": "USA",
    "web_page": null,
    "notes": null,
    "attachments": ""
},
{
    "id": 3,
    "company": "Company C",
    "last_name": "Axen",
    "first_name": "Thomas",
    "email_address": null,
    "job_title": "Purchasing Representative",
    "business_phone": "(123) 555-0100",
    "home_phone": null,
    "mobile_phone": null,
    "fax_number": "(123) 555-0101",
    "address": "123 3rd Street",
    "city": "Los Angelas",
    "state_province": "CA",
    "zip_postal_code": "99999",
    "country_region": "USA",
    "web_page": null,
    "notes": null,
    "attachments": ""
},
{
    "id": 4,
    "company": "Company D",
```

```
        "last_name": "Lee",
        "first_name": "Christina",
        "email_address": null,
        "job_title": "Purchasing Manager",
        "business_phone": "(123) 555-0100",
        "home_phone": null,
        "mobile_phone": null,
        "fax_number": "(123) 555-0101",
        "address": "123 4th Street",
        "city": "New York",
        "state_province": "NY",
        "zip_postal_code": "99999",
        "country_region": "USA",
        "web_page": null,
        "notes": null,
        "attachments": ""
    },
{
    "id": 5,
    "company": "Company E",
    "last_name": "O'Donnell",
    "first_name": "Martin",
    "email_address": null,
    "job_title": "Owner",
    "business_phone": "(123) 555-0100",
    "home_phone": null,
    "mobile_phone": null,
    "fax_number": "(123) 555-0101",
    "address": "123 5th Street",
    "city": "Minneapolis",
    "state_province": "MN",
    "zip_postal_code": "99999",
    "country_region": "USA",
    "web_page": null,
    "notes": null,
    "attachments": ""
},
{
    "id": 6,
    "company": "Company F",
    "last_name": "Pérez-Olaeta",
    "first_name": "Francisco",
    "email_address": null,
    "job_title": "Purchasing Manager",
    "business_phone": "(123) 555-0100",
    "home_phone": null,
    "mobile_phone": null,
    "fax_number": "(123) 555-0101",
```

```
        "address": "123 6th Street",
        "city": "Milwaukee",
        "state_province": "WI",
        "zip_postal_code": "99999",
        "country_region": "USA",
        "web_page": null,
        "notes": null,
        "attachments": ""
    },
    {
        "id": 7,
        "company": "Company G",
        "last_name": "Xie",
        "first_name": "Ming-Yang",
        "email_address": null,
        "job_title": "Owner",
        "business_phone": "(123) 555-0100",
        "home_phone": null,
        "mobile_phone": null,
        "fax_number": "(123) 555-0101",
        "address": "123 7th Street",
        "city": "Boise",
        "state_province": "ID",
        "zip_postal_code": "99999",
        "country_region": "USA",
        "web_page": null,
        "notes": null,
        "attachments": ""
    },
    {
        "id": 8,
        "company": "Company H",
        "last_name": "Andersen",
        "first_name": "Elizabeth",
        "email_address": null,
        "job_title": "Purchasing Representative",
        "business_phone": "(123) 555-0100",
        "home_phone": null,
        "mobile_phone": null,
        "fax_number": "(123) 555-0101",
        "address": "123 8th Street",
        "city": "Portland",
        "state_province": "OR",
        "zip_postal_code": "99999",
        "country_region": "USA",
        "web_page": null,
        "notes": null,
        "attachments": ""
    }
]
```

```
},
{
    "id": 9,
    "company": "Company I",
    "last_name": "Mortensen",
    "first_name": "Sven",
    "email_address": null,
    "job_title": "Purchasing Manager",
    "business_phone": "(123) 555-0100",
    "home_phone": null,
    "mobile_phone": null,
    "fax_number": "(123) 555-0101",
    "address": "123 9th Street",
    "city": "Salt Lake City",
    "state_province": "UT",
    "zip_postal_code": "99999",
    "country_region": "USA",
    "web_page": null,
    "notes": null,
    "attachments": ""
},
{
    "id": 10,
    "company": "Company J",
    "last_name": "Wacker",
    "first_name": "Roland",
    "email_address": null,
    "job_title": "Purchasing Manager",
    "business_phone": "(123) 555-0100",
    "home_phone": null,
    "mobile_phone": null,
    "fax_number": "(123) 555-0101",
    "address": "123 10th Street",
    "city": "Chicago",
    "state_province": "IL",
    "zip_postal_code": "99999",
    "country_region": "USA",
    "web_page": null,
    "notes": null,
    "attachments": ""
},
{
    "id": 11,
    "company": "Company K",
    "last_name": "Krschne",
    "first_name": "Peter",
    "email_address": null,
    "job_title": "Purchasing Manager",
```

```
        "business_phone": "(123) 555-0100",
        "home_phone": null,
        "mobile_phone": null,
        "fax_number": "(123) 555-0101",
        "address": "123 11th Street",
        "city": "Miami",
        "state_province": "FL",
        "zip_postal_code": "99999",
        "country_region": "USA",
        "web_page": null,
        "notes": null,
        "attachments": ""
    },
{
    "id": 12,
    "company": "Company L",
    "last_name": "Edwards",
    "first_name": "John",
    "email_address": null,
    "job_title": "Purchasing Manager",
    "business_phone": "(123) 555-0100",
    "home_phone": null,
    "mobile_phone": null,
    "fax_number": "(123) 555-0101",
    "address": "123 12th Street",
    "city": "Las Vegas",
    "state_province": "NV",
    "zip_postal_code": "99999",
    "country_region": "USA",
    "web_page": null,
    "notes": null,
    "attachments": ""
},
{
    "id": 13,
    "company": "Company M",
    "last_name": "Ludick",
    "first_name": "Andre",
    "email_address": null,
    "job_title": "Purchasing Representative",
    "business_phone": "(123) 555-0100",
    "home_phone": null,
    "mobile_phone": null,
    "fax_number": "(123) 555-0101",
    "address": "456 13th Street",
    "city": "Memphis",
    "state_province": "TN",
    "zip_postal_code": "99999",
}
```

```
        "country_region": "USA",
        "web_page": null,
        "notes": null,
        "attachments": ""
    },
{
    "id": 14,
    "company": "Company N",
    "last_name": "Grilo",
    "first_name": "Carlos",
    "email_address": null,
    "job_title": "Purchasing Representative",
    "business_phone": "(123) 555-0100",
    "home_phone": null,
    "mobile_phone": null,
    "fax_number": "(123) 555-0101",
    "address": "456 14th Street",
    "city": "Denver",
    "state_province": "CO",
    "zip_postal_code": "99999",
    "country_region": "USA",
    "web_page": null,
    "notes": null,
    "attachments": ""
},
{
    "id": 15,
    "company": "Company O",
    "last_name": "Kupkova",
    "first_name": "Helena",
    "email_address": null,
    "job_title": "Purchasing Manager",
    "business_phone": "(123) 555-0100",
    "home_phone": null,
    "mobile_phone": null,
    "fax_number": "(123) 555-0101",
    "address": "456 15th Street",
    "city": "Honolulu",
    "state_province": "HI",
    "zip_postal_code": "99999",
    "country_region": "USA",
    "web_page": null,
    "notes": null,
    "attachments": ""
},
{
    "id": 16,
    "company": "Company P",
```

```
        "last_name": "Goldschmidt",
        "first_name": "Daniel",
        "email_address": null,
        "job_title": "Purchasing Representative",
        "business_phone": "(123) 555-0100",
        "home_phone": null,
        "mobile_phone": null,
        "fax_number": "(123) 555-0101",
        "address": "456 16th Street",
        "city": "San Francisco",
        "state_province": "CA",
        "zip_postal_code": "99999",
        "country_region": "USA",
        "web_page": null,
        "notes": null,
        "attachments": ""
    },
{
    "id": 17,
    "company": "Company Q",
    "last_name": "Bagel",
    "first_name": "Jean Philippe",
    "email_address": null,
    "job_title": "Owner",
    "business_phone": "(123) 555-0100",
    "home_phone": null,
    "mobile_phone": null,
    "fax_number": "(123) 555-0101",
    "address": "456 17th Street",
    "city": "Seattle",
    "state_province": "WA",
    "zip_postal_code": "99999",
    "country_region": "USA",
    "web_page": null,
    "notes": null,
    "attachments": ""
},
{
    "id": 18,
    "company": "Company R",
    "last_name": "Autier Miconi",
    "first_name": "Catherine",
    "email_address": null,
    "job_title": "Purchasing Representative",
    "business_phone": "(123) 555-0100",
    "home_phone": null,
    "mobile_phone": null,
    "fax_number": "(123) 555-0101",
```

```
        "address": "456 18th Street",
        "city": "Boston",
        "state_province": "MA",
        "zip_postal_code": "99999",
        "country_region": "USA",
        "web_page": null,
        "notes": null,
        "attachments": ""
    },
    {
        "id": 19,
        "company": "Company S",
        "last_name": "Eggerer",
        "first_name": "Alexander",
        "email_address": null,
        "job_title": "Accounting Assistant",
        "business_phone": "(123) 555-0100",
        "home_phone": null,
        "mobile_phone": null,
        "fax_number": "(123) 555-0101",
        "address": "789 19th Street",
        "city": "Los Angelas",
        "state_province": "CA",
        "zip_postal_code": "99999",
        "country_region": "USA",
        "web_page": null,
        "notes": null,
        "attachments": ""
    },
    {
        "id": 20,
        "company": "Company T",
        "last_name": "Li",
        "first_name": "George",
        "email_address": null,
        "job_title": "Purchasing Manager",
        "business_phone": "(123) 555-0100",
        "home_phone": null,
        "mobile_phone": null,
        "fax_number": "(123) 555-0101",
        "address": "789 20th Street",
        "city": "New York",
        "state_province": "NY",
        "zip_postal_code": "99999",
        "country_region": "USA",
        "web_page": null,
        "notes": null,
        "attachments": ""
    }
]
```

```
},
{
    "id": 21,
    "company": "Company U",
    "last_name": "Tham",
    "first_name": "Bernard",
    "email_address": null,
    "job_title": "Accounting Manager",
    "business_phone": "(123) 555-0100",
    "home_phone": null,
    "mobile_phone": null,
    "fax_number": "(123) 555-0101",
    "address": "789 21th Street",
    "city": "Minneapolis",
    "state_province": "MN",
    "zip_postal_code": "99999",
    "country_region": "USA",
    "web_page": null,
    "notes": null,
    "attachments": ""
},
{
    "id": 22,
    "company": "Company V",
    "last_name": "Ramos",
    "first_name": "Luciana",
    "email_address": null,
    "job_title": "Purchasing Assistant",
    "business_phone": "(123) 555-0100",
    "home_phone": null,
    "mobile_phone": null,
    "fax_number": "(123) 555-0101",
    "address": "789 22th Street",
    "city": "Milwaukee",
    "state_province": "WI",
    "zip_postal_code": "99999",
    "country_region": "USA",
    "web_page": null,
    "notes": null,
    "attachments": ""
},
{
    "id": 23,
    "company": "Company W",
    "last_name": "Entin",
    "first_name": "Michael",
    "email_address": null,
    "job_title": "Purchasing Manager",
```

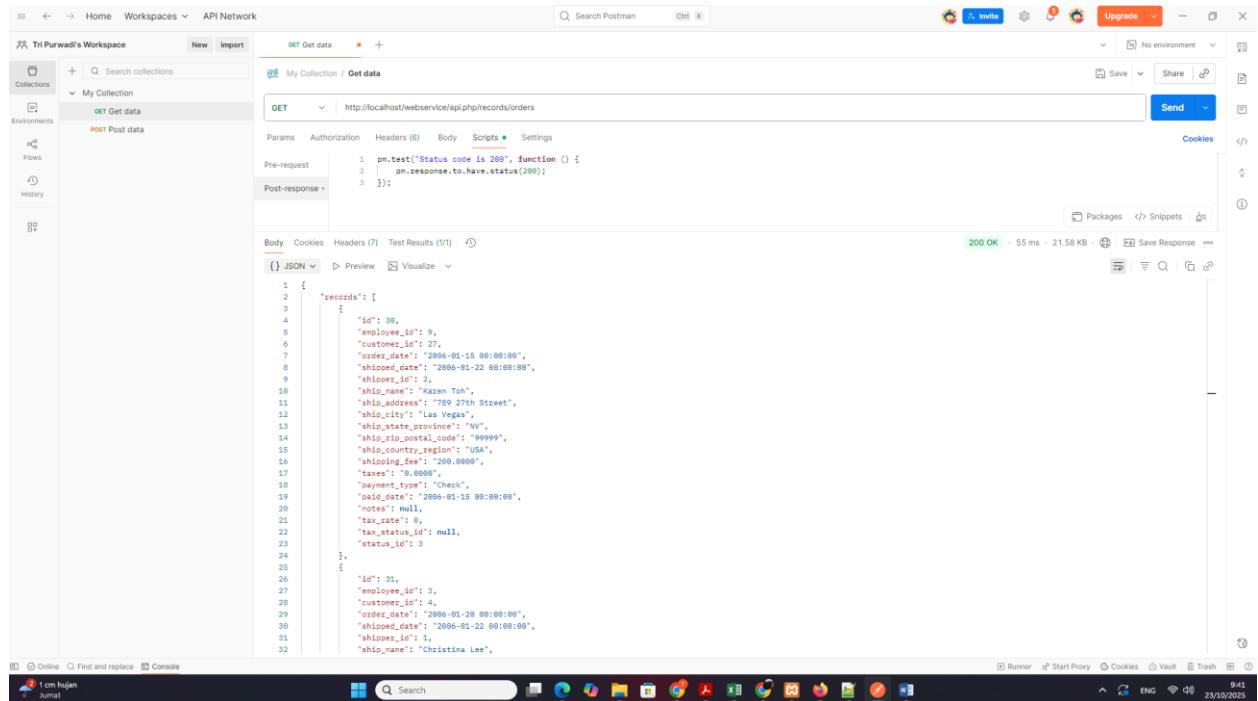
```
        "business_phone": "(123) 555-0100",
        "home_phone": null,
        "mobile_phone": null,
        "fax_number": "(123) 555-0101",
        "address": "789 23th Street",
        "city": "Portland",
        "state_province": "OR",
        "zip_postal_code": "99999",
        "country_region": "USA",
        "web_page": null,
        "notes": null,
        "attachments": ""
    },
{
    "id": 24,
    "company": "Company X",
    "last_name": "Hasselberg",
    "first_name": "Jonas",
    "email_address": null,
    "job_title": "Owner",
    "business_phone": "(123) 555-0100",
    "home_phone": null,
    "mobile_phone": null,
    "fax_number": "(123) 555-0101",
    "address": "789 24th Street",
    "city": "Salt Lake City",
    "state_province": "UT",
    "zip_postal_code": "99999",
    "country_region": "USA",
    "web_page": null,
    "notes": null,
    "attachments": ""
},
{
    "id": 25,
    "company": "Company Y",
    "last_name": "Rodman",
    "first_name": "John",
    "email_address": null,
    "job_title": "Purchasing Manager",
    "business_phone": "(123) 555-0100",
    "home_phone": null,
    "mobile_phone": null,
    "fax_number": "(123) 555-0101",
    "address": "789 25th Street",
    "city": "Chicago",
    "state_province": "IL",
    "zip_postal_code": "99999",
```

```
        "country_region": "USA",
        "web_page": null,
        "notes": null,
        "attachments": ""
    },
{
    "id": 26,
    "company": "Company Z",
    "last_name": "Liu",
    "first_name": "Run",
    "email_address": null,
    "job_title": "Accounting Assistant",
    "business_phone": "(123) 555-0100",
    "home_phone": null,
    "mobile_phone": null,
    "fax_number": "(123) 555-0101",
    "address": "789 26th Street",
    "city": "Miami",
    "state_province": "FL",
    "zip_postal_code": "99999",
    "country_region": "USA",
    "web_page": null,
    "notes": null,
    "attachments": ""
},
{
    "id": 27,
    "company": "Company AA",
    "last_name": "Toh",
    "first_name": "Karen",
    "email_address": null,
    "job_title": "Purchasing Manager",
    "business_phone": "(123) 555-0100",
    "home_phone": null,
    "mobile_phone": null,
    "fax_number": "(123) 555-0101",
    "address": "789 27th Street",
    "city": "Las Vegas",
    "state_province": "NV",
    "zip_postal_code": "99999",
    "country_region": "USA",
    "web_page": null,
    "notes": null,
    "attachments": ""
},
{
    "id": 28,
    "company": "Company BB",
```

```
        "last_name": "Raghav",
        "first_name": "Amritansh",
        "email_address": null,
        "job_title": "Purchasing Manager",
        "business_phone": "(123) 555-0100",
        "home_phone": null,
        "mobile_phone": null,
        "fax_number": "(123) 555-0101",
        "address": "789 28th Street",
        "city": "Memphis",
        "state_province": "TN",
        "zip_postal_code": "99999",
        "country_region": "USA",
        "web_page": null,
        "notes": null,
        "attachments": ""
    },
    {
        "id": 29,
        "company": "Company CC",
        "last_name": "Lee",
        "first_name": "Soo Jung",
        "email_address": null,
        "job_title": "Purchasing Manager",
        "business_phone": "(123) 555-0100",
        "home_phone": null,
        "mobile_phone": null,
        "fax_number": "(123) 555-0101",
        "address": "789 29th Street",
        "city": "Denver",
        "state_province": "CO",
        "zip_postal_code": "99999",
        "country_region": "USA",
        "web_page": null,
        "notes": null,
        "attachments": ""
    }
]
```

## 2. Perintah-Perintah Request API

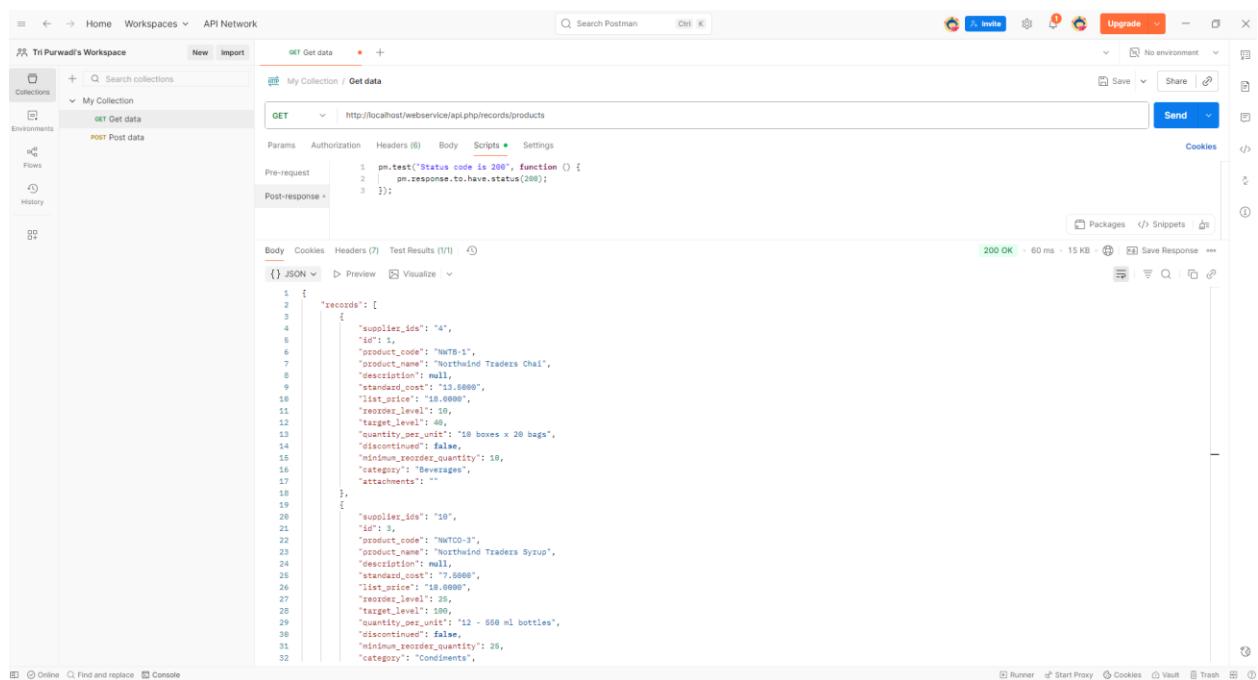
- a. <http://localhost/webservice/api.php/records/orders>



The screenshot shows a Postman collection named "My Collection" with a "GET Get data" request. The URL is `http://localhost/webservice/api.php/records/orders`. The response is a 200 OK with a size of 21.58 KB and a response time of 55 ms. The response body is a JSON object with two records:

```
1 {
  "records": [
    {
      "id": 30,
      "employee_id": 9,
      "customer_id": 27,
      "order_date": "2006-01-15 00:00:00",
      "shipped_date": "2006-01-22 00:00:00",
      "status_id": 3,
      "ship_name": "Kazen Toh",
      "ship_address": "789 27th Street",
      "ship_city": "Las Vegas",
      "ship_state_province": "NV",
      "ship_postal_code": "99999",
      "ship_country": "USA",
      "shipping_fee": "200.0000",
      "taxes": "0.0000",
      "payment_type": "Check",
      "paid_date": "2006-01-15 00:00:00",
      "notes": null,
      "tax_rate": 0,
      "tax_status_id": null,
      "status_id": 3
    },
    {
      "id": 31,
      "employee_id": 3,
      "customer_id": 4,
      "order_date": "2006-01-20 00:00:00",
      "shipped_date": "2006-01-22 00:00:00",
      "status_id": 1,
      "ship_name": "Christina Lee",
      "ship_address": null,
      "ship_city": null,
      "ship_state_province": null,
      "ship_postal_code": null,
      "ship_country": null,
      "shipping_fee": null,
      "taxes": null,
      "payment_type": null,
      "paid_date": null,
      "notes": null,
      "tax_rate": null,
      "tax_status_id": null,
      "status_id": 1
    }
  ]
}
```

- b. <http://localhost/webservice/api.php/records/products>



The screenshot shows a Postman collection named "My Collection" with a "GET Get data" request. The URL is `http://localhost/webservice/api.php/records/products`. The response is a 200 OK with a size of 15 KB and a response time of 60 ms. The response body is a JSON object with two products:

```
1 {
  "records": [
    {
      "supplier_ids": "4",
      "id": 1,
      "product_code": "WNH-1",
      "product_name": "Northwind Traders Chai",
      "description": null,
      "standard_cost": "10.5000",
      "list_price": "18.0000",
      "reorder_level": 10,
      "target_level": 40,
      "quantity_per_unit": "10 boxes x 20 bags",
      "discontinued": false,
      "minimum_reorder_quantity": 10,
      "category": "Beverages",
      "attachments": ""
    },
    {
      "supplier_ids": "10",
      "id": 9,
      "product_code": "WNHCO-3",
      "product_name": "Northwind Traders Syrup",
      "description": null,
      "standard_cost": "7.5000",
      "list_price": "18.0000",
      "reorder_level": 20,
      "target_level": 50,
      "quantity_per_unit": "12 - 500 ml bottles",
      "discontinued": false,
      "minimum_reorder_quantity": 20,
      "category": "Condiments"
    }
  ]
}
```

c. <http://localhost/webservice/api.php/records/suppliers>

```

1 {
2   "records": [
3     {
4       "id": 1,
5       "company": "Supplier A",
6       "last_name": "Andersen",
7       "first_name": "Elizabeth A.",
8       "email_address": null,
9       "job_title": "Sales Manager",
10      "business_phone": null,
11      "home_phone": null,
12      "mobile_phone": null,
13      "fax_number": null,
14      "address": null,
15      "city": null,
16      "state_province": null,
17      "zip_postal_code": null,
18      "country_region": null,
19      "web_page": null,
20      "notes": null,
21      "attachments": ""
22    },
23    {
24      "id": 2,
25      "company": "Supplier B",
26      "last_name": "Weller",
27      "first_name": "Cornelia",
28      "email_address": null,
29      "job_title": "Sales Manager",
30      "business_phone": null,
31      "home_phone": null,
32      "mobile_phone": null,

```

d. <http://localhost/webservice/api.php/records/shippers>

```

1 {
2   "records": [
3     {
4       "id": 1,
5       "company": "Shipping Company A",
6       "last_name": null,
7       "first_name": null,
8       "email_address": null,
9       "job_title": null,
10      "business_phone": null,
11      "home_phone": null,
12      "mobile_phone": null,
13      "fax_number": null,
14      "address": "123 Any Street",
15      "city": "Anytown",
16      "state_province": "TN",
17      "zip_postal_code": "99999",
18      "country_region": "USA",
19      "web_page": null,
20      "notes": null,
21      "attachments": ""
22    },
23    {
24      "id": 2,
25      "company": "Shipping Company B",
26      "last_name": null,
27      "first_name": null,
28      "email_address": null,
29      "job_title": null,
30      "business_phone": null,
31      "home_phone": null,
32      "mobile_phone": null,

```