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IPD-18 Web Services Development ┃ Final Project
REST API on AdventureWorks DB Sales Schema
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Basic CRUD methods apply to the following tables:

SalesTaxRate ┃ SalesPerson ┃ SalesTerritory ┃ SalesReason ┃ SalesOrderHeader ┃ SalesOrderDetail

METHOD	URI	ACTION	IMAGE #
GET	api/Model	Return all Models	A1
GET	api/Model/{id}	Return one Model	A2
POST	api/Model	Create a Model	A3
PUT	api/Model/{id}	Modify a Model	A4
DELETE	api/Model/{id}	Delete a Model	A5

Additional Methods for sub-resources by table:

SalesTerritory:

METHOD	URI	ACTION	IMAGE #
GET	api/SalesTerritory/{id}/SalesPerson	Return all SalesPeople associated with one SalesTerritory	B1
GET	api/SalesTerritory/{id}/SalesOrderHeader	Return all SalesOrderHeaders associated with one SalesTerritory	B2

SalesReason:

METHOD	URI	ACTION	IMAGE #
GET	api/SalesReason/{id}/SalesOrderHeader	Return all SalesOrderHeaders associated with one SalesReson	C1

SalesOrderDetail:

METHOD	URI	ACTION	IMAGE #
GET	api/SalesOrderDetail/{id}/SalesOrderHeader	Return the SalesOrderHeader belonging to a SalesOrderDetail	D1

SalesPerson:

METHOD	URI	ACTION	IMAGE #
GET	api/SalesPerson/{id}/ SalesTerritory	Return the SalesTerritory of a SalesPerson	E1
GET	api/SalesPerson/{id}/ SalesOrderHeader	Return all SalesOrderHeaders associated with one SalesPerson	E2
GET	api/SalesPerson/{id}/ SalesQuotaHistory	Return all SalesPersonQuotaHistories associated with one SalesPerson	E3
POST	api/SalesPerson/{id}/ SalesQuotaHistory	Create a SalesPersonQuotaHistory	E4
DELETE	SalesPerson/{salesPersonId}/ SalesQuotaHistory/ {salesQuotaDate}	Delete a SalesPersonQuotaHistory	E5

SalesOrderHeader:

METHOD	URI	ACTION	IMAGE #
GET	api/SalesOrderHeader/{id}/ SalesTerritory	Return the SalesTerritory of one SalesOrderHeader	F1
GET	api/SalesOrderHeader/{id}/ SalesPerson	Return the SalesPerson of one SalesOrderHeader	F2
GET	api/SalesOrderHeader/{id}/ SalesOrderDetail	Return all SalesOrderDetails belonging to one SalesOrderHeader	F3
GET	api/SalesOrderHeader/{id}/ SalesReason	Return all SalesReasons associated with one SalesOrderHeader	F4
POST	api/SalesOrderHeader/ {salesOrderId}/SalesReason/ {salesReasonId}	Add a SalesReason to a SalesOrderHeader	F5
DELETE	api/SalesOrderHeader/ {salesOrderId}/SalesReason/ {salesReasonId}	Remove a SalesReason from a SalesorderHeader	F6

A1

GET ▼ http://127.0.0.1:8000/api/SalesTaxRate/1

Params Authorization Headers (8) Body Pre-request Script Tests Settings

● none ○ form-data ○ x-www-form-urlencoded ○ raw ○ binary ○ GraphQL

This request does not have a body

Body Cookies (2) Headers (9) Test Results   Status: 200 OK Time: 63ms

Pretty Raw Preview Visualize JSON ▼

```
1  {
2      "data": {
3          "SalesTaxRateID": 1,
4          "StateProvinceID": 1,
5          "TaxType": 1,
6          "TaxRate": 14,
7          "Name": "Canadian GST + Alberta Provincial Tax Update",
8          "ModifiedDate": "1998-05-31T18:00:00.000000Z"
9      }
10 }
```

A2

GET ▼ http://127.0.0.1:8000/api/SalesTaxRate/1

Params Authorization Headers (8) Body Pre-request Script Tests Settings

● none ○ form-data ○ x-www-form-urlencoded ○ raw ○ binary ○ GraphQL

This request does not have a body

Body Cookies (2) Headers (9) Test Results   Status: 200 OK Time: 63ms

Pretty Raw Preview Visualize JSON ▼

```
1  {
2      "data": {
3          "SalesTaxRateID": 1,
4          "StateProvinceID": 1,
5          "TaxType": 1,
6          "TaxRate": 14,
7          "Name": "Canadian GST + Alberta Provincial Tax Update",
8          "ModifiedDate": "1998-05-31T18:00:00.000000Z"
9      }
10 }
```

A3

POST ▼ http://127.0.0.1:8000/api/SalesTaxRate/

Params | Authorization | Headers (8) | Body ● | Pre-request Script | Tests | Settings

○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary ○ GraphQL JSON ▼

```
1 ▾ {
2       "StateProvinceID": 2,
3       "TaxType": 1,
4       "TaxRate": 14,
5       "Name": "My Tax Rate",
6       "ModifiedDate": "1998-05-31T18:00:00.000000Z"
7   }
```

A3 - Result

GET ▼ http://127.0.0.1:8000/api/SalesTaxRate/41

Params | Authorization | Headers (10) | Body | Pre-request Script | Tests | Settings

● none ○ form-data ○ x-www-form-urlencoded ○ raw ○ binary ○ GraphQL

This request does not have a body

Body | Cookies (2) | Headers (9) | Test Results   Status: 200 OK   Time: 61ms

Pretty | Raw | Preview | Visualize | JSON ▼

```
1  {
2      "data": {
3          "SalesTaxRateID": 41,
4          "StateProvinceID": 2,
5          "TaxType": 1,
6          "TaxRate": 14,
7          "Name": "My Tax Rate",
8          "ModifiedDate": "1998-05-31T18:00:00.000000Z"
9      }
10 }
```

PUT ▾ http://127.0.0.1:8000/api/SalesTaxRate/41   **A4**

Params   Authorization   Headers (10)   **Body** ●   Pre-request Script   Tests   Settings

○ none   ○ form-data   ○ x-www-form-urlencoded   ● raw   ○ binary   ○ GraphQL   JSON ▾

```
1  {
2      "StateProvinceID": 2,
3      "TaxType": 1,
4      "TaxRate": 14,
5      "Name": "My Tax Rate UPDATED",
6      "ModifiedDate": "1998-05-31T18:00:00.000000Z"
7  }
```

GET ▾ http://127.0.0.1:8000/api/SalesTaxRate/41   **A4 - Result**

Params   Authorization   Headers (9)   **Body**   Pre-request Script   Tests   Settings

● none   ○ form-data   ○ x-www-form-urlencoded   ○ raw   ○ binary   ○ GraphQL

This request does not have a body

Body   Cookies   Headers (9)   Test Results   Status: 200 OK   Time: 52ms

Pretty   Raw   Preview   Visualize   JSON ▾   ⇥

```
1  {
2      "data": {
3          "SalesTaxRateID": 41,
4          "StateProvinceID": 2,
5          "TaxType": 1,
6          "TaxRate": 14,
7          "Name": "My Tax Rate UPDATED",
8          "ModifiedDate": "1998-05-31T18:00:00.000000Z"
9      }
10 }
```

A5

DELETE ▼ http://127.0.0.1:8000/api/SalesTaxRate/41

Params   Authorization   Headers (8)   **Body**   Pre-request Script   Tests   Settings

◉ none   ⦿ form-data   ⦿ x-www-form-urlencoded   ⦿ raw   ⦿ binary   ⦿ GraphQL

This request does not have a body

Body   Cookies   Headers (9)   Test Results   Status: 200 OK   Time: 47ms

Pretty   Raw   Preview   Visualize   HTML ▼   ⇥

1 |

A5 - Result

GET ▼ http://127.0.0.1:8000/api/SalesTaxRate/41|

Params   Authorization   Headers (7)   **Body**   Pre-request Script   Tests   Settings

◉ none   ⦿ form-data   ⦿ x-www-form-urlencoded   ⦿ raw   ⦿ binary   ⦿ GraphQL

This request does not have a body

Body   Cookies   Headers (9)   Test Results   Status: 404 Not Found   Time: 46ms   S

Pretty   Raw   Preview   Visualize   HTML ▼   ⇥

```
1  <!DOCTYPE html>
2  <html lang="en">
3
4  <head>
5      <meta charset="utf-8">
6      <meta name="viewport" content="width=device-width, initial-scale=1">
7
8      <title>Not Found</title>
9
```

B1

GET ▼ | http://127.0.0.1:8000/api/SalesTerritory/1/SalesPerson

Params | Authorization | Headers (7) | **Body** | Pre-request Script | Tests | Settings

● none ○ form-data ○ x-www-form-urlencoded ○ raw ○ binary ○ GraphQL

This request does not have a body

Body | Cookies | Headers (9) | Test Results   Status: 200 OK Time: 59ms Si...

Pretty | Raw | Preview | Visualize | JSON ▼ | ⇥

```
1  {
2      "data": [
3          {
4              "SalesPersonID": 280,
5              "TerritoryID": 1,
6              "SalesQuota": 250000,
7              "Bonus": 5000,
8              "CommissionPct": 0.01,
9              "SalesYTD": 0,
10             "SalesLastYear": 1927059.178,
11             "ModifiedDate": "2001-06-23T18:00:00.000000Z"
12         },
13         {
14             "SalesPersonID": 283,
15             "TerritoryID": 1,
16             "SalesQuota": 250000,
17             "Bonus": 3500,
```

B2

GET ▼ | http://127.0.0.1:8000/api/SalesTerritory/1/SalesOrderHeader

Params | Authorization | Headers (7) | **Body** | Pre-request Script | Tests | Settings

● none ○ form-data ○ x-www-form-urlencoded ○ raw ○ binary ○ GraphQL

This request does not have a body

Body | Cookies | Headers (9) | Test Results   Status: 200 OK Time: 66ms

Pretty | Raw | Preview | Visualize | JSON ▼ | ⇥

```
1  {
2      "data": [
3          {
4              "SalesOrderID": 43664,
5              "RevisionNumber": 1,
6              "OrderDate": "2001-06-30T18:00:00.000000Z",
7              "DueDate": "2001-07-13T00:00:00.000000Z",
8              "ShipDate": "2001-07-08T00:00:00.000000Z",
9              "Status": 5,
10             "OnlineOrderFlag": 0,
11             "SalesOrderNumber": "SO43664",
12             "PurchaseOrderNumber": "PO16617121983",
13             "AccountNumber": "10-4020-000397",
14             "CustomerID": 397,
15             "ContactID": 458,
16             "SalesPersonID": 280,
17             "TerritoryID": 1,
```

C1

GET ▼ http://127.0.0.1:8000/api/SalesReason/2/SalesOrderHeader

Params Authorization Headers (7) Body Pre-request Script Tests Settings

○ none ○ form-data ○ x-www-form-urlencoded ○ raw ○ binary ○ GraphQL

This request does not have a body

Body Cookies Headers (9) Test Results   Status: 200 OK Time: 95ms Size

Pretty Raw Preview Visualize JSON ▼

```
1  {
2      "data": [
3          {
4              "SalesOrderID": 43658,
5              "RevisionNumber": 1,
6              "OrderDate": "2001-06-30T18:00:00.000000Z",
7              "DueDate": "2001-07-13T00:00:00.000000Z",
8              "ShipDate": "2001-07-08T00:00:00.000000Z",
9              "Status": 5,
10             "OnlineOrderFlag": 0,
11             "SalesOrderNumber": "S043666",
12             "PurchaseOrderNumber": "PO16008173883",
13             "AccountNumber": "10-4020-000511",
14             "CustomerID": 511,
15             "ContactID": 828,
16             "SalesPersonID": 276,
17             "TerritoryID": 4,
```

D1

GET ▼ http://127.0.0.1:8000/api/SalesOrderDetail/1/SalesOrderHeader

Params Authorization Headers (7) Body Pre-request Script Tests Settings

○ none ○ form-data ○ x-www-form-urlencoded ○ raw ○ binary ○ GraphQL

This request does not have a body

Body Cookies Headers (9) Test Results   Status: 200 OK Time: 107ms

Pretty Raw Preview Visualize JSON ▼

```
1  {
2      "data": {
3          "SalesOrderID": 43659,
4          "RevisionNumber": 1,
5          "OrderDate": "2001-06-30T18:00:00.000000Z",
6          "DueDate": "2001-07-13T00:00:00.000000Z",
7          "ShipDate": "2001-07-08T00:00:00.000000Z",
8          "Status": 5,
9          "OnlineOrderFlag": 0,
10         "SalesOrderNumber": "S043659",
11         "PurchaseOrderNumber": "PO522145787",
12         "AccountNumber": "10-4020-000676",
13         "CustomerID": 676,
14         "ContactID": 378,
15         "SalesPersonID": 279,
16         "TerritoryID": 5,
17         "BillToAddressID": 985,
```

E1

Params   Authorization   Headers (7)   **Body**   Pre-request Script   Tests   Settings

● none   ○ form-data   ○ x-www-form-urlencoded   ○ raw   ○ binary   ○ GraphQL

This request does not have a body

Body   Cookies   Headers (9)   Test Results   Status: 200 OK   Time: 218ms

Pretty   Raw   Preview   Visualize   JSON ▼

```
1  {
2      "data": {
3          "TerritoryID": 2,
4          "Name": "Northeast",
5          "CountryRegionCode": "US",
6          "Group": "North America",
7          "SalesYTD": 3857163.6331,
8          "SalesLastYear": 3607148.9371,
9          "CostYTD": 0,
10         "CostLastYear": 0,
11         "ModifiedDate": "1998-05-31T18:00:00.000000Z"
12     }
13 }
```

E2

GET   ▼   http://127.0.0.1:8000/api/SalesPerson/275/SalesOrderHeader

Params   Authorization   Headers (7)   **Body**   Pre-request Script   Tests   Settings

● none   ○ form-data   ○ x-www-form-urlencoded   ○ raw   ○ binary   ○ GraphQL

This request does not have a body

Body   Cookies   Headers (9)   Test Results   Status: 200 OK   Time: 70ms   Si

Pretty   Raw   Preview   Visualize   JSON ▼

```
1  {
2      "data": [
3          {
4              "SalesOrderID": 43670,
5              "RevisionNumber": 1,
6              "OrderDate": "2001-06-30T18:00:00.000000Z",
7              "DueDate": "2001-07-13T00:00:00.000000Z",
8              "ShipDate": "2001-07-08T00:00:00.000000Z",
9              "Status": 5,
10             "OnlineOrderFlag": 0,
11             "SalesOrderNumber": "SO43670",
12             "PurchaseOrderNumber": "PO14384116310",
13             "AccountNumber": "10-4020-000504",
14             "CustomerID": 504,
               "ContactID": 99,
               "SalesPersonID": 275,
               "TerritoryID": 3,
```

GET   ▼   http://127.0.0.1:8000/api/SalesPerson/279/SalesQuotaHistory

Params   Authorization   Headers (7)   **Body**   Pre-request Script   Tests   Settings

● none   ○ form-data   ○ x-www-form-urlencoded   ○ raw   ○ binary   ○ GraphQL

This request does not have a body

Body   Cookies   Headers (9)   Test Results   Status: 200 OK   Time: 54ms   Si

Pretty   Raw   Preview   Visualize   JSON ▼

E3

```
1  {
2      "data": [
3          {
4              "SalesPersonID": 279,
5              "QuotaDate": "2001-07-01T00:00:00.000000Z",
6              "SalesQuota": 669000,
7              "ModifiedDate": "2001-05-16T18:00:00.000000Z"
8          },
9          {
10             "SalesPersonID": 279,
11             "QuotaDate": "2001-10-01T00:00:00.000000Z",
12             "SalesQuota": 917000,
13             "ModifiedDate": "2001-08-16T18:00:00.000000Z"
14         },
15         {
16             "SalesPersonID": 279,
17             "QuotaDate": "2002-01-01T00:00:00.000000Z",
```

POST ▼ http://127.0.0.1:8000/api/SalesPerson/279/SalesQuotaHistory

Params | Authorization | Headers (9) | Body ● | Pre-request

● none ● form-data ● x-www-form-urlencoded ● raw ● b

```
1 ▼ {
2       "SalesPersonID": 279,
3       "QuotaDate": "1999-03-16T00:00:00.000000Z",
4       "SalesQuota": 669000,
5       "ModifiedDate": "2001-05-16T18:00:00.000000Z"
6 }
```

E4

GET ▼ http://127.0.0.1:8000/api/SalesPerson/279/SalesQuotaHistory

Params | Authorization | Headers (9) | Body | Pre-request Script | Tests | Settings

● none ● form-data ● x-www-form-urlencoded ● raw ● binary ● GraphQL

This request does not have a body

Body | Cookies | Headers (9) | Test Results   Status: 200 OK   Time: 54m

Pretty | Raw | Preview | Visualize   JSON ▼

```
1   {
2       "data": [
3           {
4               "SalesPersonID": 279,
5               "QuotaDate": "1999-03-16T00:00:00.000000Z",
6               "SalesQuota": 669000,
7               "ModifiedDate": "2020-03-23T18:51:55.000000Z"
8           },
9           {
10              "SalesPersonID": 279,
11              "QuotaDate": "2001-07-01T00:00:00.000000Z",
12              "SalesQuota": 669000,
13              "ModifiedDate": "2001-05-16T18:00:00.000000Z"
14          },
15          {
16              "SalesPersonID": 279,
17              "QuotaDate": "2001-10-01T00:00:00.000000Z",
```

DELETE ▼ http://127.0.0.1:8000/api/SalesPerson/279/SalesQuotaHistory/1999-03-16

Params | Authorization | Headers (9)

● none ● form-data ● x-www-form-url

E5

GET ▼ http://127.0.0.1:8000/api/SalesPerson/279/SalesQuotaHistory

Params | Authorization | Headers (7) | Body | Pre-request Script | Tests | Settings

● none ● form-data ● x-www-form-urlencoded ● raw ● binary ● GraphQL

This request does not have a body

Body | Cookies | Headers (9) | Test Results   Status: 200 OK   Time: 54ms   Si:

Pretty | Raw | Preview | Visualize   JSON ▼

```
1   {
2       "data": [
3           {
4               "SalesPersonID": 279,
5               "QuotaDate": "2001-07-01T00:00:00.000000Z",
6               "SalesQuota": 669000,
7               "ModifiedDate": "2001-05-16T18:00:00.000000Z"
8           },
9           {
10              "SalesPersonID": 279,
11              "QuotaDate": "2001-10-01T00:00:00.000000Z",
12              "SalesQuota": 917000,
13              "ModifiedDate": "2001-08-16T18:00:00.000000Z"
14          },
15          {
16              "SalesPersonID": 279,
17              "QuotaDate": "2002-01-01T00:00:00.000000Z",
```

GET http://127.0.0.1:8000/api/SalesOrderHeader/43658/SalesTerritory

D1

Params Authorization Headers (7) Body Pre-request Script Tests Settings

● none ● form-data ● x-www-form-urlencoded ● raw ● binary ● GraphQL

This request does not have a body

Body Cookies Headers (9) Test Results   Status: 200 OK   Time: 61ms

Pretty Raw Preview Visualize   JSON ▼

```
1  {
2      "data": {
3          "TerritoryID": 4,
4          "Name": "Southwest",
5          "CountryRegionCode": "US",
6          "Group": "North America",
7          "SalesYTD": 8351296.7411,
8          "SalesLastYear": 5366575.7098,
9          "CostYTD": 0,
10         "CostLastYear": 0,
11         "ModifiedDate": "1998-05-31T18:00:00.000000Z"
12     }
13 }
```

GET http://127.0.0.1:8000/api/SalesOrderHeader/43658/SalesPerson

D2

Params Authorization Headers (7) Body Pre-request Script Tests Settings

● none ● form-data ● x-www-form-urlencoded ● raw ● binary ● GraphQL

This request does not have a body

Body Cookies Headers (9) Test Results   Status: 200 OK   Time: 116ms

Pretty Raw Preview Visualize   JSON ▼

```
1  {
2      "data": {
3          "SalesPersonID": 276,
4          "TerritoryID": 4,
5          "SalesQuota": 250000,
6          "Bonus": 2000,
7          "CommissionPct": 0.015,
8          "SalesYTD": 5200475.2313,
9          "SalesLastYear": 1439156.0291,
10         "ModifiedDate": "2001-06-23T18:00:00.000000Z"
11     }
12 }
```

D3

GET ▾ http://127.0.0.1:8000/api/SalesOrderHeader/43658/SalesOrderDetail

Params   Authorization   Headers (7)   **Body**   Pre-request Script   Tests   Settings

● none   ○ form-data   ○ x-www-form-urlencoded   ○ raw   ○ binary   ○ GraphQL

This request does not have a body

Body   Cookies   Headers (9)   Test Results   Status: 200 OK   Time: 68ms   Si

Pretty   Raw   Preview   Visualize   JSON ▾   ⇄

```
1  {
2      "data": [
3          {
4              "SalesOrderID": 43658,
5              "SalesOrderDetailID": 121319,
6              "CarrierTrackingNumber": null,
7              "OrderQty": 1,
8              "ProductID": 921,
9              "SpecialOfferID": 1,
10             "UnitPrice": 4.99,
11             "UnitPriceDiscount": 0,
12             "LineTotal": 4.99,
13             "ModifiedDate": "2020-03-20T13:53:35.000000Z"
14         },
15         {
16             "SalesOrderID": 43658,
17             "SalesOrderDetailID": 121320,
```

D4

GET ▾ http://127.0.0.1:8000/api/SalesOrderHeader/43658/SalesReason

Params   Authorization   Headers (7)   **Body**   Pre-request Script   Tests   Settings

● none   ○ form-data   ○ x-www-form-urlencoded   ○ raw   ○ binary   ○ GraphQL

This request does not have a body

Body   Cookies   Headers (9)   Test Results   Status: 200 OK   Time: 74ms

Pretty   Raw   Preview   Visualize   JSON ▾   ⇄

```
1  {
2      "data": [
3          {
4              "SalesReasonID": 2,
5              "Name": "On Promotion",
6              "ReasonType": "Promotion",
7              "ModifiedDate": "1998-05-31T18:00:00.000000Z"
8          }
9      ]
10 }
```

POST ▼ http://127.0.0.1:8000/api/SalesOrderHeader/43658/SalesReason/(1)

Params   Authorization   Header

● none   ● form-data   ● x-www

D5

GET ▼ http://127.0.0.1:8000/api/SalesOrderHeader/43658/SalesReason/

Params   Authorization   Headers (7)   **Body**   Pre-request Script   Tests   Settings

● none   ● form-data   ● x-www-form-urlencoded   ● raw   ● binary   ● GraphQL

This request does not have a body

Body   Cookies   Headers (9)   Test Results   Status: 200 OK   Time: 47ms

Pretty   Raw   Preview   Visualize   JSON ▼

```
 1  {
 2      "data": [
 3          {
 4              "SalesReasonID": 1,
 5              "Name": "Price",
 6              "ReasonType": "Other",
 7              "ModifiedDate": "1998-05-31T18:00:00.000000Z"
 8          },
 9          {
10              "SalesReasonID": 2,
11              "Name": "On Promotion",
12              "ReasonType": "Promotion",
13              "ModifiedDate": "1998-05-31T18:00:00.000000Z"
14          }
15      ]
16  }
```

DELETE ▼ http://127.0.0.1:8000/api/SalesOrderHeader/43658/SalesReason/(2)

Params   Authorization   Head

D6

GET ▼ http://127.0.0.1:8000/api/SalesOrderHeader/43658/SalesReason

Params   Authorization   Headers (7)   **Body**   Pre-request Script   Tests   Settings

● none   ● form-data   ● x-www-form-urlencoded   ● raw   ● binary   ● GraphQL

This request does not have a body

Body   Cookies   Headers (9)   Test Results   Status: 200 OK   Time: 69ms

Pretty   Raw   Preview   Visualize   JSON ▼

```
 1  {
 2      "data": [
 3          {
 4              "SalesReasonID": 1,
 5              "Name": "Price",
 6              "ReasonType": "Other",
 7              "ModifiedDate": "1998-05-31T18:00:00.000000Z"
 8          }
 9      ]
10  }
```