

MQL-to-SQL Use Case

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Chapter One - MQL-to-SQL General Notes

Chapter Two - MQL-to-SQL Use Case: MQLRead

Use Case Brief

Use Case Name: MQLRead

Actors:

- Requestor
- Responder

Use Case Description:

After the Requestor has submitted a Read Query Request to the Responder, the Responder provides a Read Query Response¹.

```
{
  "type": "/sakila/customer",
  "customer_id": 1,
  "first_name": null,
  "last_name": null
}
```

Read Query Request

```
{
  "code": "/api/status/ok",
  "result": [
    {
      "type": "/sakila/customer",
      "customer_id": 1,
      "first_name": "MARY",
      "last_name": "SMITH"
    }
  ],
  "sql": [
    {
      "statement": "SELECT  T1.first_name AS T1C1\n, T1.last_name AS T1C2\nFROM sakila.customer\nT1\nWHERE  T1.customer_id = :P1",
      "params": [
        {
          "name": "P1",
          "value": 1,
          "type": 1
        }
      ]
    }
  ],
  "timing": [
    {
      "name": "begin query #0",
      "microtime": "0.97851400 1345456623"
    },
    {
      "name": "end query #0",
      "microtime": "0.99005200 1345456623"
    }
  ]
}
```

¹ Using the MQL to SQL Query Editor.

```
],  
  "status": "200 OK",  
  "transaction_id": "not implemented"  
}
```

Read Query Response

Chapter Three - MQL-to-SQL Use Case: MQLWrite

Use Case Brief

Use Case Name: MQLWrite

Actors:

- Requestor
- Responder

Use Case Description:

After the Requestor has submitted a Write Query Request to the Responder, the Responder provides a Write Query Response².

```
{
  "type": "/sakila/customer",
  "customer_id": 1,
  "first_name": "MARY",
  "last_name": "SMITH"
}
```

Write Query Request

```
{
  "code": "/api/status/ok",
  "result": [
    {
      "type": "/sakila/customer",
      "customer_id": 1,
      "first_name": "MARY",
      "last_name": "SMITH"
    }
  ],
  "sql": [
    {
      "statement": "UPDATE sakila.customer T1\nSET  T1.first_name = :P2\n, T1.last_name\n= :P3\nWHERE T1.customer_id = :P1",
      "params": [
        {
          "name": "P1",
          "value": 1,
          "type": 1,
          "name": "P2",
          "value": "MARY",
          "type": 2,
          "name": "P3",
          "value": "SMITH",
          "type": 2
        }
      ]
    }
  ],
  "timing": [
    {
      "name": "begin query #0",

```

² Using the MQL to SQL Query Editor.

```
    "microtime": "0.97851400 1345456623"
  },
  {
    "name": "end query #0",
    "microtime": "0.99005200 1345456623"
  }
],
"status": "200 OK",
"transaction_id": "not implemented"
}
```

Write Query Response

Appendix

- <http://code.google.com/p/mql-to-sql/>