

JOIN.sql - Omantelacademy.MONITORING (OmantelAcademy\bbuser (58)) - Microsoft SQL Server Management Studio

File Edit View Project Tools Window Help

Object Explorer

- Connect
- Omantelacademy (SQL Server 15.0.2000.5)
  - Databases
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    - COMPANY
    - MONITORING
  - Security
  - Server Objects
  - Replication
  - PolyBase
  - Always On High Availability
  - Management
  - Integration Services Catalogs
  - SQL Server Agent (Agent XPs disabled)
  - XEvent Profiler

SQLQuery1.sql - O...ademy\bbuser (52)

```
--CREATE DATABASE MONITORING SYSTEM;
USE MONITORING SYSTEM;

-- Table 1: Servers
CREATE TABLE Servers
(
    server_id INT PRIMARY KEY,
    server_name VARCHAR(50),
    region VARCHAR(50)
);

INSERT INTO Servers VALUES
(1, 'web-server-01', 'us-east'),
(2, 'db-server-01', 'us-east'),
(3, 'api-server-01', 'eu-west'),
(4, 'cache-server-01', 'us-west');

-- Table 2: Alerts
CREATE TABLE Alerts
(
    alert_id INT PRIMARY KEY,
    server_id INT,
    alert_type VARCHAR(50),
    severity VARCHAR(20)
);

INSERT INTO Alerts VALUES
(101, 1, 'CPU Spike', 'High'),
(102, 2, 'Disk Failure', 'Critical'),
(103, 2, 'Memory Leak', 'Medium'),
(104, 5, 'Network Latency', 'Low');

-- Insert data for server_id (adon case)
75 %
```

Results Messages

model_name	use_case	server_name	region
1	1	web-server-01	us-east

Query executed successfully. Omantelacademy (15.0 RTM) OmantelAcademy\bbuser... MONITORING 00:00:00 12 rows

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```
-- Table 3: AI Models
CREATE TABLE AI_Models
(
    model_id INT PRIMARY KEY,
    model_name VARCHAR(50),
    use_case VARCHAR(50)
);

INSERT INTO AI_Models VALUES
(201, 'AnomalyDetector-v2', 'Alert Prediction'),
(202, 'ResourceForecast', 'Capacity Planning'),
(203, 'LogParser-NLP', 'Log Analysis');

-- Table 4: ModelDeployments
CREATE TABLE ModelDeployments
(
    deployment_id INT PRIMARY KEY,
    server_id INT,
    model_id INT,
    deployed_on DATE
);

INSERT INTO ModelDeployments VALUES
(301, 1, 201, '2025-06-01'),
(302, 2, 201, '2025-06-03'),
(303, 2, 202, '2025-06-10'),
(304, 3, 203, '2025-06-12');

-- INNER JOIN
SELECT A.alert_id, A.alert_type, A.severity, S.server_name
FROM Alerts A INNER JOIN Servers S ON A.server_id = S.server_id;

-- LEFT JOIN
SELECT S.server_name, A.alert_type, A.severity
FROM Servers S LEFT JOIN Alerts A ON S.server_id = A.server_id;

-- RIGHT JOIN
SELECT A.alert_id, A.alert_type, A.severity, S.server_name FROM Servers S
RIGHT JOIN Alerts A ON A.server_id = S.server_id;

75 %
```

Results Messages

model_name	use_case	server_name	region
1	1	web-server-01	us-east

Query executed successfully. Omantelacademy (15.0 RTM) OmantelAcademy\bbuser... MONITORING 00:00:00 12 rows

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FROM Servers S LEFT JOIN Alerts A ON S.server_id = A.server_id;

--RIGHT JOIN
SELECT A.alert_id,A.alert_type,A.severity,S.server_name FROM Servers S
RIGHT JOIN Alerts A ON A.server_id = S.server_id;

-- FULL OUTER JOIN
SELECT S.server_name, A.alert_type, A.severity
FROM Servers S FULL OUTER JOIN Alerts A ON S.server_id = A.server_id;

--CROSS JOIN
SELECT M.model_name, M.use_case,S.server_name, S.region FROM AI_Models M CROSS JOIN Servers S;
```

121 %

Results Messages

model_name	use_case	server_name	region
1	1	1	1

Query executed successfully.

Omantelacademy (15.0 RTM) OmantelAcademy\bbuser... MONITORING 00:00:00 12 rows

Ready

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