

## **COVER SHEET**

- ***COURSE NAME*** – INTRO TO DATABASE SYSTEMS
- ***COURSE NUMBER*** – CS 3410
- ***SEMESTER AND YEAR*** – FALL 2019
- ***ASSIGNMENT NAME*** – PROJECT DATABASE DELIVERABLE
- ***MY NAME*** – RUTVIK MARAKANA
- ***PROFESSOR NAME*** – BETTY KRETLOW

- **USER GROUPS**

	<b>DEPARTMENT</b>	<b>PROJECT</b>	<b>EMPLOYEE</b>	<b>EMPLOYEE_HOURS_PER_WEEK</b>	<b>LOCATION</b>	<b>EmployeeDependent</b>
<b>COMPANY OWNER</b>	Grant Rights, Modify Structure	Grant Rights, Modify Structure	Grant Rights, Modify Structure	Grant Rights, Modify Structure	Grant Right, Modify Structure	Grant Rights, Modify Structure
<b>DEPARTMENT MANAGER</b>	Grant Rights, Modify Structure	Query	Insert, Change, Query	Query	Query	Query
<b>COMPANY EMPLOYEES</b>	Query	Query	Insert, Change, Query	Insert, Change, Query	Query	Insert, Change, Query
<b>PROJECT SALESPERSON</b>	Query	Insert, Change, Query	Query	Query	Query	Query

# 1. SQL TO BUILD DATABASE

The screenshot shows the Microsoft SQL Server Management Studio interface. The left pane displays the Object Explorer with the connection to STANDARD-31 (SQL Server 13.0.1742.0). The right pane contains three tabs: SQLQuery1.sql - ST...WIN\marakan (56), CREATE TABLES.sql...WIN\marakan (55), and ADD DATA.sql - ST...WIN\marakan (52). The CREATE TABLES.sql tab is active, showing the following SQL code:

```
USE COMPANY
GO

CREATE TABLE DEPARTMENT(
    DepartmentID int NOT NULL IDENTITY(500,1),
    DepartmentName varchar(50) NOT NULL,
    DepartmentNumber int NOT NULL,
    DepartmentManager varchar(50) NULL,
    DepartmentManagerStartDate date NULL,
    CONSTRAINT DepartmentPK PRIMARY KEY(DepartmentID),
    CONSTRAINT DepartmentAK1 UNIQUE(DepartmentNumber),
    CONSTRAINT DepartmentAK2 UNIQUE(DepartmentManager)
);

CREATE TABLE PROJECT(
    ProjectID int NOT NULL IDENTITY(5000,1),
    ProjectName varchar(50) NOT NULL,
    ProjectNumber int NOT NULL,
    ProjectLocation varchar(50) NOT NULL,
    DepartmentID int NOT NULL,
    CONSTRAINT ProjectPK PRIMARY KEY(ProjectID),
    CONSTRAINT ProjectAK1 UNIQUE(ProjectNumber),
    CONSTRAINT DepartmentFK FOREIGN KEY(DepartmentID)
        REFERENCES DEPARTMENT(DepartmentID)
        ON DELETE NO ACTION
);
```

The Messages pane at the bottom indicates "Commands completed successfully." The Properties pane on the right shows connection details for STANDARD-31.

SQLQuery4.sql - STANDARD-37.COMPANY (WIN\mrarkan (53)) - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

New Query Generic Debugger

Object Explorer

STANDARD-37 (SQL Server 13.0.1742.0)

- Databases
  - System Databases
  - Database Snapshots
  - DWConfiguration
  - DWDiagnostics
  - DWQueue
  - ReportServer
  - ReportServerTempDB
  - COMPANY
- Security
- Server Objects
- Replication
- PolyBase
- Always On High Availability
- Management
- Integration Services Catalogs
- SQL Server Agent (Agent XPs disabled)
- XEvent Profiler

SQLQuery4.sql - ST...WIN\mrarkan (53)\*

```
CREATE TABLE EMPLOYEE(
    EmployeeID int NOT NULL IDENTITY(100,1),
    EmployeeName varchar(50) NOT NULL,
    EmployeeSSN int NOT NULL,
    EmployeeAddress varchar(255) NULL,
    EmployeeSalary int NULL,
    EmployeeSex varchar(25) NULL,
    EmployeeDOB date NULL,
    EmployeeSupervisor varchar(50) NULL,
    DepartmentID int NOT NULL,
    CONSTRAINT EmployeePK PRIMARY KEY(EmployeeID),
    CONSTRAINT EmployeeAK1 UNIQUE(EmployeeName),
    CONSTRAINT Emp_DepartmentFK FOREIGN KEY(DepartmentID)
        REFERENCES DEPARTMENT(DepartmentID)
        ON DELETE NO ACTION,
    CONSTRAINT Employee_SupervisorFK FOREIGN KEY(EmployeeSupervisor)
        REFERENCES EMPLOYEE(EmployeeName)
        ON UPDATE NO ACTION
        ON DELETE NO ACTION,
);

CREATE TABLE EMPLOYEE_HOURS_PER_WEEK(
    EmployeeID int NOT NULL,
    ProjectID int NOT NULL,
    PayDate date NOT NULL,
    HoursPerWeek int NOT NULL,
    CONSTRAINT EmployeeHoursPK PRIMARY KEY(EmployeeID, ProjectID, PayDate),
    CONSTRAINT Hours_EmployeeFK FOREIGN KEY(EmployeeID)
        REFERENCES EMPLOYEE(EmployeeID)
        ON DELETE CASCADE,
    CONSTRAINT Hours_ProjectFK FOREIGN KEY(ProjectID)
        REFERENCES PROJECT(ProjectID)
        ON DELETE CASCADE,
);

100 %
```

Messages

Commands completed successfully.

Query executed successfully.

STANDARD-37 (13.0 RTM) | WIN\mrarkan (53) | COMPANY | 00:00:00 | 0 rows

Properties

Aggregate Status

Connection failure: Elapsed time: 00:00:00.274 Finish time: 11/8/2019 9:46:54 PM Name: STANDARD-37 Rows returned: 0 Start time: 11/8/2019 9:46:54 PM State: Open

Connection

Connection name: STANDARD-37 (WIN\mrarkan (53)) Connection elapsed: 00:00:00.274 Connection encrypt: Not encrypted Connection finished: 11/8/2019 9:46:54 PM Connection rows affected: 0 Connection start time: 11/8/2019 9:46:54 PM Connection state: Open Display name: STANDARD-37 Login name: WIN\mrarkan Server name: STANDARD-37 Server version: 13.0.1742 Session Tracing ID: SPID: 53

Name

The name of the connection.

Ready

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SQLQuery4.sql - STANDARD-37.COMPANY (WIN\mrarkan (53)) - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

New Query Generic Debugger

Object Explorer

STANDARD-37 (SQL Server 13.0.1742.0)

- Databases
  - System Databases
  - Database Snapshots
  - DWConfiguration
  - DWDiagnostics
  - DWQueue
  - ReportServer
  - ReportServerTempDB
  - COMPANY
- Security
- Server Objects
- Replication
- PolyBase
- Always On High Availability
- Management
- Integration Services Catalogs
- SQL Server Agent (Agent XPs disabled)
- XEvent Profiler

SQLQuery4.sql - ST...WIN\mrarkan (53)\*

```
CREATE TABLE EmployeeDependent(
    DependentFirstName varchar(50) NOT NULL,
    EmployeeID int NOT NULL,
    DependentSex varchar(25) NULL,
    DependentDOB date NULL,
    CONSTRAINT EmployeeDependentPK PRIMARY KEY(DependentFirstName, EmployeeID),
    CONSTRAINT Dependent_EmployeeFK FOREIGN KEY(EmployeeID)
        REFERENCES EMPLOYEE(EmployeeID)
        ON DELETE CASCADE,
);

CREATE TABLE LOCATION(
    DepartmentLocation varchar(255) NOT NULL,
    DepartmentID int NOT NULL,
    CONSTRAINT LocationPK PRIMARY KEY(DepartmentID, DepartmentLocation),
    CONSTRAINT Location_DepartmentFK FOREIGN KEY(DepartmentID)
        REFERENCES DEPARTMENT(DepartmentID)
        ON DELETE CASCADE,
);

100 %
```

Messages

Commands completed successfully.

Query executed successfully.

STANDARD-37 (13.0 RTM) | WIN\mrarkan (53) | COMPANY | 00:00:00 | 0 rows

Properties

Aggregate Status

Connection failure: Elapsed time: 00:00:00.274 Finish time: 11/8/2019 9:46:54 PM Name: STANDARD-37 Rows returned: 0 Start time: 11/8/2019 9:46:54 PM State: Open

Connection

Connection name: STANDARD-37 (WIN\mrarkan (53)) Connection elapsed: 00:00:00.274 Connection encrypt: Not encrypted Connection finished: 11/8/2019 9:46:54 PM Connection rows affected: 0 Connection start time: 11/8/2019 9:46:54 PM Connection state: Open Display name: STANDARD-37 Login name: WIN\mrarkan Server name: STANDARD-37 Server version: 13.0.1742 Session Tracing ID: SPID: 53

Name

The name of the connection.

Ready

ASSIGNMENT 6

SQLQuery4.sql - ST... | COMPANY DATABASE ...

9:47 PM

SQLQuery1.sql - STANDARD-31.COMPANY (WIN\rmarakan (56)) - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

New Query Generic Debugger

Object Explorer

STANDARD-31 (SQL Server 13.0.1742.0)

Databases

COMPANY

ALTER TABLE DEPARTMENT  
ADD CONSTRAINT DepartmentManagerFK FOREIGN KEY(DepartmentManager)  
REFERENCES EMPLOYEE(EmployeeName)  
ON UPDATE NO ACTION  
ON DELETE NO ACTION;

Properties

Aggregate Status

Connection failure:  
Elapsed time 00:00:00.104  
Finish time 11/21/2019 9:54:18 AM  
Name STANDARD-31  
Rows returned 0  
Start time 11/21/2019 9:54:18 AM  
State Open

Connection

Connection name STANDARD-31 (WIN\rmarakan)

Connection Details

Connection elapse 00:00:00.104  
Connection encryp Not encrypted  
Connection finish t 11/21/2019 9:54:18 AM  
Connection rows rr 0  
Connection start tii 11/21/2019 9:54:18 AM  
Connection state Open  
Display name STANDARD-31  
Login name WIN\rmarakan  
Server name STANDARD-31  
Server version 13.0.1742  
Session Tracing ID  
SPID 56

Messages

Commands completed successfully.

Query executed successfully.

Item(s) Saved

ASSIGNMENT 6 SQLQuery1.sql - STAN...

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## 1. SQL TO POPULATE THE DATABASE

SQLQuery5.sql - STANDARD-37.COMPANY (WIN\rmarakan (54)) - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

New Query Generic Debugger

Object Explorer

STANDARD-37 (SQL Server 13.0.1742.0)

Databases

COMPANY

USE COMPANY  
GO

INSERT INTO DEPARTMENT VALUES  
('A',10, 'Joan Micro', '2005-10-12');  
INSERT INTO DEPARTMENT VALUES  
('B',25, 'John Doe', '2001-12-10');  
INSERT INTO DEPARTMENT VALUES  
('C',101, 'Om Singh', '2000-08-19');  
INSERT INTO DEPARTMENT VALUES  
('D',145, 'Tameka Fisher', '2000-08-16');  
INSERT INTO DEPARTMENT VALUES  
('E',87, 'Jacqueline Duncan', '2007-09-25');  
INSERT INTO DEPARTMENT VALUES  
('F',95, 'Latasha Hays', '2011-12-01');  
INSERT INTO DEPARTMENT VALUES  
('G',563, 'Pamelia Newman', '2015-01-02');  
INSERT INTO DEPARTMENT VALUES  
('H',987, 'Zach Baldwin', '2015-12-31');  
INSERT INTO DEPARTMENT VALUES  
('I',1010, 'Deep Patel', '2001-10-24');  
INSERT INTO DEPARTMENT VALUES  
('J',486, 'Steven Smith', '2018-06-10');

Properties

Aggregate Status

Connection failure:  
Elapsed time 00:00:00.299  
Finish time 11/8/2019 9:49:14 PM  
Name STANDARD-37  
Rows returned 0  
Start time 11/8/2019 9:49:14 PM  
State Open

Connection

Connection name STANDARD-37 (WIN\rmarakan)

Connection Details

Connection elapse 00:00:00.299  
Connection encryp Not encrypted  
Connection finish t 11/8/2019 9:49:14 PM  
Connection rows rr 0  
Connection start tii 11/8/2019 9:49:14 PM  
Connection state Open  
Display name STANDARD-37  
Login name WIN\rmarakan  
Server name STANDARD-37  
Server version 13.0.1742  
Session Tracing ID  
SPID 54

Messages

(1 row affected)  
(1 row affected)

Query executed successfully.

Ready

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SQLQuery5.sql - STANDARD-37.COMPANY (WIN\rmrakan (54)) - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

New Query Generic Debugger

Object Explorer

SQLQuery5.sql - ST...WIN\rmrakan (54)\* SQLQuery4.sql - ST...WIN\rmrakan (53)\*

```
INSERT INTO PROJECT VALUES
    ('OLDE MARIETTA APARTMENTS', 125677, 'MARIETTA', 506);
INSERT INTO PROJECT VALUES
    ('ANTELLIA', 145978, 'MUMBAI', 504);
INSERT INTO PROJECT VALUES
    ('EMPIRE STATE', 120423, 'NEW YORK', 501);
INSERT INTO PROJECT VALUES
    ('CHRYSLER', 679468, 'NEW YORK', 508);
INSERT INTO PROJECT VALUES
    ('BANK OF AMERICA TOWER', 600000, 'MIAMI', 501);
INSERT INTO PROJECT VALUES
    ('EAST SIDE BUILDING', 098009, 'KEYWEST', 509);
INSERT INTO PROJECT VALUES
    ('COCA COLA FACTORY', 404433, 'ATLANTA', 503);
INSERT INTO PROJECT VALUES
    ('LV AQUARIUM', 228776, 'LAS VEGAS', 504);
INSERT INTO PROJECT VALUES
    ('WHITE WATER', 243649, 'DELHI', 502);
INSERT INTO PROJECT VALUES
    ('COBB COUNTY PARK', 000001, 'KENNESAW', 502);
INSERT INTO PROJECT VALUES
    ('RALEIGH INTERNATIONAL AIRPORT', 001122, 'RALEIGH', 500);
INSERT INTO PROJECT VALUES
    ('PITTSBURGH HISTORY MUSEUM', 001212, 'PITTSBURGH', 505);
INSERT INTO PROJECT VALUES
    ('NEW YORK GROCERY', 010101, 'NEW YORK CITY', 507);
```

Messages

(1 row affected)

(1 row affected)

(1 row affected)

(1 row affected)

100 %

Query executed successfully.

STANDARD-37 (13.0 RTM) | WIN\rmrakan (54) | COMPANY | 00:00:00 | 0 rows

Ready

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Properties

Current connection parameters

Aggregate Status

Connection failure:

- Elapsed time 00:00:299
- Finish time 11/8/2019 9:49:14 PM
- Name STANDARD-37
- Rows returned 0
- Start time 11/8/2019 9:49:14 PM
- State Open

Connection

Connection name STANDARD-37 (WIN\rmrakan)

Connection Details

- Connection elapsed 00:00:299
- Connection encrypt Not encrypted
- Connection finish 11/8/2019 9:49:14 PM
- Connection rows 0
- Connection start 11/8/2019 9:49:14 PM
- Connection state Open
- Display name STANDARD-37
- Login name WIN\rmrakan
- Server name STANDARD-37
- Server version 13.0.1742
- Session Tracing ID
- SPID 54

Name

The name of the connection.

SQLQuery5.sql - STANDARD-37.COMPANY (WIN\rmrakan (54)) - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

New Query Generic Debugger

Object Explorer

SQLQuery5.sql - ST...WIN\rmrakan (54)\* SQLQuery4.sql - ST...WIN\rmrakan (53)\*

```
INSERT INTO LOCATION VALUES
    ('MARIETTA', 506);
INSERT INTO LOCATION VALUES
    ('LAS VEGAS', 504);
INSERT INTO LOCATION VALUES
    ('MIAMI', 501);
INSERT INTO LOCATION VALUES
    ('NEW YORK', 508);
INSERT INTO LOCATION VALUES
    ('ATLANTA', 506);
INSERT INTO LOCATION VALUES
    ('NEW YORK CITY', 501);
INSERT INTO LOCATION VALUES
    ('NEW YORK CITY', 507);
INSERT INTO LOCATION VALUES
    ('PITTSBURGH', 505);
INSERT INTO LOCATION VALUES
    ('HOUSTON', 509);
INSERT INTO LOCATION VALUES
    ('KEYWEST', 509);
INSERT INTO LOCATION VALUES
    ('MUMBAI', 504);
INSERT INTO LOCATION VALUES
    ('DELHI', 502);
INSERT INTO LOCATION VALUES
    ('KENNESAW', 502);
INSERT INTO LOCATION VALUES
    ('RALEIGH', 500);
INSERT INTO LOCATION VALUES
    ('DULUTH', 503);
```

Messages

(1 row affected)

(1 row affected)

(1 row affected)

100 %

Query executed successfully.

STANDARD-37 (13.0 RTM) | WIN\rmrakan (54) | COMPANY | 00:00:00 | 0 rows

Ready

Ln 174 Col 1 Ch 1 INS

Properties

Current connection parameters

Aggregate Status

Connection failure:

- Elapsed time 00:00:299
- Finish time 11/8/2019 9:49:14 PM
- Name STANDARD-37
- Rows returned 0
- Start time 11/8/2019 9:49:14 PM
- State Open

Connection

Connection name STANDARD-37 (WIN\rmrakan)

Connection Details

- Connection elapsed 00:00:299
- Connection encrypt Not encrypted
- Connection finish 11/8/2019 9:49:14 PM
- Connection rows 0
- Connection start 11/8/2019 9:49:14 PM
- Connection state Open
- Display name STANDARD-37
- Login name WIN\rmrakan
- Server name STANDARD-37
- Server version 13.0.1742
- Session Tracing ID
- SPID 54

Name

The name of the connection.

SQLQuery5.sql - STANDARD-37.COMPANY (WIN\rmarakan (54)) - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

Object Explorer

SQLQuery5.sql - ST...WIN\rmarakan (54)\* -> X SQLQuery4.sql - ST...WIN\rmarakan (53)\*

```


    INSERT INTO EMPLOYEE VALUES
        ('Deep Patel',123456789, '9273 Thomas Avenue,New York City,New York', 250000, 'M', '1950-12-10', NULL, 508);
    INSERT INTO EMPLOYEE VALUES
        ('Rutvik Marakana',123456788, '910 Vine Street,New York City, New York', 150000, 'M', '1950-10-12', 'Deep Patel', 508);
    INSERT INTO EMPLOYEE VALUES
        ('Steven Smith',123456787, '796C Hornet Village,Keywest,Florida', 150000, 'M', '1956-12-31', NULL, 509);
    INSERT INTO EMPLOYEE VALUES
        ('Joan Micro',123456786, '988 Pearl Lane,Raleigh,North Carolina', 100500, 'M', '1959-10-25', NULL, 500);
    INSERT INTO EMPLOYEE VALUES
        ('John Doe',123456785, '120 JFK Street,Jersey City,New Jersey', 120000, 'M', '1950-06-19', NULL, 501);
    INSERT INTO EMPLOYEE VALUES
        ('Tameka Fisher',123456784, '107 River Drive,Atlanta,Georgia', 200000, 'F', '1970-09-26', NULL,503);
    INSERT INTO EMPLOYEE VALUES
        ('Jacqueline Duncan',123456783, '120 Galaxy Apartments,Kandivali,Mumbai,Maharashtra,India', 170000, 'F', '1959-06-15', NULL,504);
    INSERT INTO EMPLOYEE VALUES
        ('Latasha Hays',123456782, '769 West Road,Pittsburgh,Pennsylvania', 170000, 'F', '1949-07-16', NULL, 505);
    INSERT INTO EMPLOYEE VALUES
        ('Pamela Newman',123456781, '927 Hornet Road,Acworth,Georgia', 85000, 'F', '1956-12-30', NULL, 506);
    INSERT INTO EMPLOYEE VALUES
        ('Zach Baldwin',123456780, '7014 Manor Station Rd.,New York City,New York', 135000, 'F', '1967-09-27', NULL, 507);
    INSERT INTO EMPLOYEE VALUES
        ('Thomas Garr',123456700, '15 Brown Street,Houston,Texas', 50000, 'M', '1945-05-25', 'Steven Smith', 509);
    INSERT INTO EMPLOYEE VALUES
        ('Kaleigh Kendrick',123456701, '8550 Spruce Drive,Raleigh,North Carolina', 80000, 'F', '1959-02-27', 'Joan Micro', 500);
    INSERT INTO EMPLOYEE VALUES
        ('Om Singh',123456702, '145 Chestnut Ave,Delhi,India', 125000, 'M', '1950-06-10', NULL, 502);
    INSERT INTO EMPLOYEE VALUES
        ('Douglas Pearl',123456703, '19 Brown Street,Pittsburgh,Pennsylvania', 85000, 'M', '1934-09-25','Latasha Hays', 505);
    INSERT INTO EMPLOYEE VALUES
        ('Matt Kralik',123456708, '769 West Road,Delhi,India', 65000, 'M', '1950-06-15', 'Om Singh', 502);

```

Properties

Current connection parameters

Aggregate Status

Connection failure: Elapsed time 00:00:299 Finish time 11/8/2019 9:49:14 PM Name STANDARD-37 Rows returned 0 Start time 11/8/2019 9:49:14 PM State Open

Connection Connection name STANDARD-37 (WIN\rmarakan)

Connection Details

Connection elapse: 00:00:299 Connection encry: Not encrypted Connection finish t 11/8/2019 9:49:14 PM Connection rows n 0 Connection start tii 11/8/2019 9:49:14 PM Connection state Open Display name STANDARD-37 Login name WIN\rmarakan Server name STANDARD-37 Server version 13.0.1742 Session Tracing ID Session Tracing ID SPID 54

Messages

(1 row affected)

(1 row affected)

100 %

Query executed successfully.

STANDARD-37 (13.0 RTM) | WIN\rmarakan (54) | COMPANY | 00:00:00 | 0 rows

Ready Ln 174 Col 1 Ch 1 INS

SQLQuery5.sql - STANDARD-37.COMPANY (WIN\rmarakan (54)) - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

Object Explorer

SQLQuery5.sql - ST...WIN\rmarakan (54)\* -> X SQLQuery4.sql - ST...WIN\rmarakan (53)\*

```


    INSERT INTO EMPLOYEE_HOURS_PER_WEEK VALUES
        (100, 5003, '2019-05-15', 40);
    INSERT INTO EMPLOYEE_HOURS_PER_WEEK VALUES
        (181, 5003, '2019-05-15', 20);
    INSERT INTO EMPLOYEE_HOURS_PER_WEEK VALUES
        (182, 5005, '2019-05-31', 40);
    INSERT INTO EMPLOYEE_HOURS_PER_WEEK VALUES
        (103, 5010, '2019-06-15', 25);
    INSERT INTO EMPLOYEE_HOURS_PER_WEEK VALUES
        (184, 5004, '2019-06-15', 27);
    INSERT INTO EMPLOYEE_HOURS_PER_WEEK VALUES
        (185, 5006, '2019-07-15', 15);
    INSERT INTO EMPLOYEE_HOURS_PER_WEEK VALUES
        (106, 5001, '2019-10-15', 40);
    INSERT INTO EMPLOYEE_HOURS_PER_WEEK VALUES
        (187, 5011, '2019-11-08', 30);
    INSERT INTO EMPLOYEE_HOURS_PER_WEEK VALUES
        (188, 5000, '2019-09-08', 29);
    INSERT INTO EMPLOYEE_HOURS_PER_WEEK VALUES
        (109, 5012, '2019-05-15', 40);
    INSERT INTO EMPLOYEE_HOURS_PER_WEEK VALUES
        (110, 5005, '2019-05-15', 25);
    INSERT INTO EMPLOYEE_HOURS_PER_WEEK VALUES
        (111, 5010, '2019-06-15', 40);
    INSERT INTO EMPLOYEE_HOURS_PER_WEEK VALUES
        (112, 5008, '2019-01-15', 14);
    INSERT INTO EMPLOYEE_HOURS_PER_WEEK VALUES
        (113, 5011, '2019-11-08', 37);
    INSERT INTO EMPLOYEE_HOURS_PER_WEEK VALUES
        (114, 5008, '2019-01-15', 40);

```

Properties

Current connection parameters

Aggregate Status

Connection failure: Elapsed time 00:00:299 Finish time 11/8/2019 9:49:14 PM Name STANDARD-37 Rows returned 0 Start time 11/8/2019 9:49:14 PM State Open

Connection Connection name STANDARD-37 (WIN\rmarakan)

Connection Details

Connection elapse: 00:00:299 Connection encry: Not encrypted Connection finish t 11/8/2019 9:49:14 PM Connection rows n 0 Connection start tii 11/8/2019 9:49:14 PM Connection state Open Display name STANDARD-37 Login name WIN\rmarakan Server name STANDARD-37 Server version 13.0.1742 Session Tracing ID Session Tracing ID SPID 54

Messages

(1 row affected)

(1 row affected)

100 %

Query executed successfully.

STANDARD-37 (13.0 RTM) | WIN\rmarakan (54) | COMPANY | 00:00:00 | 0 rows

Ready Ln 174 Col 1 Ch 1 INS

SQLQuery5.sql - STANDARD-37.COMPANY (WIN\rmrakan (54))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

Object Explorer

STANDARD-37 (SQL Server 13.0.1742.0)

- Databases
  - System Databases
  - Database Snapshots
  - DWConfiguration
  - DWDiagnostics
  - DWQueue
  - ReportServer
  - ReportServerTempDB
  - COMPANY**
- Security
- Server Objects
- Replication
- PolyBase
- Always On High Availability
- Management
- Integration Services Catalogs
- SQL Server Agent (Agent XPs disabled)
- XEvent Profiler

SQLQuery5.sql - ST...WIN\rmrakan (54)\* - SQLQuery4.sql - ST...WIN\rmrakan (53)\*

```

INSERT INTO EmployeeDependent VALUES
    ('Jeffrey', 100, 'M', '1951-12-12');
INSERT INTO EmployeeDependent VALUES
    ('David', 102, 'M', '1950-12-31');
INSERT INTO EmployeeDependent VALUES
    ('Tiffany', 102, 'F', '1950-12-31');
INSERT INTO EmployeeDependent VALUES
    ('Fred', 105, 'M', '1960-09-25');
INSERT INTO EmployeeDependent VALUES
    ('Harry', 106, 'F', '1950-06-12');
INSERT INTO EmployeeDependent VALUES
    ('Susan', 107, 'F', '1950-07-12');
INSERT INTO EmployeeDependent VALUES
    ('Selma', 107, 'F', '1960-01-12');
INSERT INTO EmployeeDependent VALUES
    ('Linda', 110, 'F', '1940-06-25');
INSERT INTO EmployeeDependent VALUES
    ('Chris', 113, 'M', '1920-09-25');
INSERT INTO EmployeeDependent VALUES
    ('Jo Anne', 114, 'F', '1940-09-12');
  
```

Properties

Current connection parameters

Aggregate Status

- Connection failure: Elapsed time 00:00:00.299
- Finish time 11/8/2019 9:49:14 PM
- Name STANDARD-37
- Rows returned 0
- Start time 11/8/2019 9:49:14 PM
- State Open

Connection

- Connection name STANDARD-37 (WIN\rmrakan)

Connection Details

- Connection elapse: 00:00:00.299
- Connection encrypt: Not encrypted
- Connection finish t 11/8/2019 9:49:14 PM
- Connection rows r 0
- Connection start tii 11/8/2019 9:49:14 PM
- Connection state Open
- Display name STANDARD-37
- Login name WIN\rmrakan
- Server name STANDARD-37
- Server version 13.0.1742
- Session Tracing ID
- SPID 54

Messages

(1 row affected)

(1 row affected)

Query executed successfully.

STANDARD-37 (13.0 RTM) | WIN\rmrakan (54) | COMPANY | 00:00:00 | 0 rows

Ready Ln 174 Col 1 Ch 1 INS

## 2. TABLE CONTENTS

### a) DEPARTMENT TABLE

SQLQuery6.sql - STANDARD-37.COMPANY (WIN\rmrakan (53))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

Object Explorer

STANDARD-37 (SQL Server 13.0.1742.0)

- Databases
  - System Databases
  - Database Snapshots
  - DWConfiguration
  - DWDiagnostics
  - DWQueue
  - ReportServer
  - ReportServerTempDB
  - COMPANY**
- Tables
  - System Tables
  - FileTables
  - External Tables
  - dbo.DEPARTMENT
  - dbo.EMPLOYEE
  - dbo.EMPLOYEE\_HOL
  - dbo.EmployeeDepen
  - dbo.PROJECT
  - Views
  - External Resources
  - Synonyms
  - Programmability
  - Service Broker
  - Storage
  - Security
  - Security
  - Server Objects
  - Replication
  - PolyBase
  - Always On High Availability
  - Management
  - Integration Services Catalogs

SQLQuery6.sql - ST...WIN\rmrakan (53)\*

```

SELECT *
FROM DEPARTMENT;
  
```

Properties

Current connection parameters

Aggregate Status

- Connection failure: Elapsed time 00:00:00.209
- Finish time 11/8/2019 9:54:52 PM
- Name STANDARD-37
- Rows returned 10
- Start time 11/8/2019 9:54:52 PM
- State Open

Connection

- Connection name STANDARD-37 (WIN\rmrakan)

Connection Details

- Connection elapse: 00:00:00.209
- Connection encrypt: Not encrypted
- Connection finish t 11/8/2019 9:54:52 PM
- Connection rows r 10
- Connection start tii 11/8/2019 9:54:52 PM
- Connection state Open
- Display name STANDARD-37
- Login name WIN\rmrakan
- Server name STANDARD-37
- Server version 13.0.1742
- Session Tracing ID
- SPID 53

Results

DepartmentID	DepartmentName	DepartmentNumber	DepartmentManager	DepartmentManagerStartDate
1	A	10	Joan Micro	2005-10-12
2	B	25	John Doe	2001-12-10
3	C	101	Om Singh	2000-08-19
4	D	145	Tameka Fisher	2000-08-16
5	E	87	Jacqueline Duncan	2007-09-25
6	F	95	Latasha Hays	2011-12-01
7	G	563	Pamela Newman	2015-01-02
8	H	987	Zach Baldwin	2015-10-21
9	I	1010	Deep Patel	2001-10-24
10	J	486	Steven Smith	2018-06-10

Messages

Query executed successfully.

STANDARD-37 (13.0 RTM) | WIN\rmrakan (53) | COMPANY | 00:00:00 | 10 rows

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## b) PROJECT TABLE

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left shows the database structure for 'STANDARD-37'. The central pane displays the results of a query:

```
SELECT * FROM PROJECT;
```

The results show 13 rows of data from the PROJECT table:

ProjectID	ProjectName	ProjectNumber	ProjectLocation	DepartmentID
1	OLDE MARIETTA APARTMENTS	125677	MARIETTA	506
2	ANTELLIA	145978	MUMBAI	504
3	EMPIRE STATE	120423	NEW YORK	501
4	CHRYSLER	679468	NEW YORK	508
5	BANK OF AMERICA TOWER	600000	MIAMI	501
6	EAST SIDE BUILDING	98009	KEYWEST	509
7	COCA COLA FACTORY	404433	ATLANTA	503
8	LV AQUARIUM	228776	LAS VEGAS	504
9	WHITE WATER	243649	DELHI	502
10	COBB COUNTY PARK	1	KENNESAW	502
11	RALEIGH INTERNATIONAL AIRPORT	1122	RALEIGH	500
12	PITTSBURGH HISTORY MUSEUM	1212	PITTSBURGH	505
13	NEW YORK GROCERY	10101	NEW YORK CITY	507

The status bar at the bottom indicates "Query executed successfully." and "STANDARD-37 (13.0 RTM) | WIN\rmrarkan (55) | COMPANY | 00:00:00 | 13 rows".

## c) EMPLOYEE TABLE

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left shows the database structure for 'STANDARD-37'. The central pane displays the results of a query:

```
SELECT * FROM EMPLOYEE;
```

The results show 15 rows of data from the EMPLOYEE table:

EmployeeID	EmployeeName	EmployeeSSN	EmployeeAddress	EmployeeSalary	EmployeeSex	EmployeeDOB	EmployeeSupervisor	DepartmentID
1	Deep Patel	123456789	9273 Thomas Avenue, New York City, New York	250000	M	1950-12-10	NULL	508
2	Rutvik Marakan	123456788	910 Vine Street, New York City, New York	150000	M	1950-10-12	Deep Patel	508
3	Steven Smith	123456787	796C Homet Village, Keywest, Florida	150000	M	1956-12-31	NULL	509
4	Joan Micro	123456786	988 Pearl Lane, Raleigh, North Carolina	100500	M	1959-10-25	NULL	500
5	John Doe	123456785	120 JFK Street, Jersey City, New Jersey	120000	M	1950-06-19	NULL	501
6	Tameka Fisher	123456784	107 River Drive, Atlanta, Georgia	200000	F	1970-09-26	NULL	503
7	Jacqueline Duncan	123456783	120 Galaxy Apartments, Kandivali, Mumbai, Maharashtra, India	170000	F	1959-06-15	NULL	504
8	Latasha Hays	123456782	769 West Road, Pittsburgh, Pennsylvania	170000	F	1949-07-16	NULL	505
9	Pamela Newman	123456781	927 Homer Road, Acworth, Georgia	85000	F	1956-12-30	NULL	506
10	Zach Baldwin	123456780	7014 Manor Station Rd., New York City, New York	135000	F	1967-09-27	NULL	507
11	Thomas Garr	123456700	15 Brown Street, Houston, Texas	50000	M	1945-05-25	Steven Smith	509
12	Kaleigh Kendrick	123456701	8550 Spruce Drive, Raleigh, North Carolina	80000	F	1959-02-27	Joan Micro	500
13	Om Singh	123456702	145 Chestnut Ave., Delhi, India	125000	M	1950-06-10	NULL	502
14	Douglas Pearl	123456703	19 Brown Street, Pittsburgh, Pennsylvania	85000	M	1934-09-25	Latasha Hays	505
15	Matt Kral	123456708	769 West Road, Delhi, India	65000	M	1950-06-15	Om Singh	502

The status bar at the bottom indicates "Query executed successfully." and "STANDARD-37 (13.0 RTM) | WIN\rmrarkan (55) | COMPANY | 00:00:00 | 15 rows".

#### d) EMPLOYEE\_HOURS\_PER\_WEEK TABLE

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left shows the database structure for 'STANDARD-37'. The central pane displays the results of a query:

```
SELECT *
FROM EMPLOYEE_HOURS_PER_WEEK;
```

The results grid shows 15 rows of data:

	EmployeeID	ProjectID	PayDate	HoursPerWeek
1	100	5003	2019-05-15	40
2	101	5003	2019-05-15	20
3	102	5005	2019-05-31	40
4	103	5010	2019-06-15	25
5	104	5004	2019-06-15	27
6	105	5006	2019-07-15	15
7	106	5001	2019-10-15	40
8	107	5011	2019-11-08	30
9	108	5000	2019-09-08	29
10	109	5012	2019-05-15	40
11	110	5005	2019-05-15	25
12	111	5010	2019-06-15	40
13	112	5008	2019-01-15	14
14	113	5011	2019-11-08	37
15	114	5008	2019-01-15	40

The status bar at the bottom indicates "Query executed successfully." and "STANDARD-37 (13.0 RTM) | WIN\rmrarkan (55) | COMPANY | 00:00:00 | 15 rows".

#### e) LOCATION TABLE

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left shows the database structure for 'STANDARD-37'. The central pane displays the results of a query:

```
SELECT *
FROM LOCATION;
```

The results grid shows 15 rows of data:

	DepartmentLocation	DepartmentID
1	RALEIGH	500
2	MIAMI	501
3	NEW YORK CITY	501
4	DELHI	502
5	KENNESAW	502
6	DULUTH	503
7	LAS VEGAS	504
8	MUMBAI	504
9	PITTSBURGH	505
10	ATLANTA	506
11	MARIETTA	506
12	NEW YORK CITY	507
13	NEW YORK	508
14	HOUSTON	509
15	KEYWEST	509

The status bar at the bottom indicates "Query executed successfully." and "STANDARD-37 (13.0 RTM) | WIN\rmrarkan (55) | COMPANY | 00:00:00 | 15 rows".

## f) EmployeeDependent TABLE

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure of 'STANDARD-37'. The central pane shows a query window with the following SQL code:

```
SELECT *  
FROM EmployeeDependent;
```

The Results pane below displays the output of the query, which is a table with 10 rows. The columns are: DependentFirstName, EmployeeID, DependentSex, and DependentDOB. The data is as follows:

	DependentFirstName	EmployeeID	DependentSex	DependentDOB
1	Chris	113	M	1920-09-25
2	David	102	M	1950-12-31
3	Fred	105	M	1960-09-25
4	Jeffrey	100	M	1951-12-12
5	Jo Anne	114	F	1940-09-12
6	Linda	110	F	1940-06-25
7	May	106	F	1950-06-12
8	Selma	107	F	1960-01-12
9	Susan	107	F	1950-07-12
10	Tiffany	102	F	1950-12-31

The status bar at the bottom indicates "Query executed successfully." and "10 rows". The Properties pane on the right shows connection parameters and aggregate status.

### 3. VIEWS

#### a) VIEW 1 – DepartmentManager

The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, under the 'COMPANY' database, a new view named 'dbo.DepartmentManager' is being created. The 'View Designer' pane displays the view definition:

```
SELECT DepartmentName AS Department, DepartmentManager AS Manager
FROM    dbo.DEPARTMENT
```

The Properties pane on the right shows the following settings for the view:

- (Identity)**
- Name**: DepartmentManager
- Database Name**: COMPANY
- Description**:
- Schema**: dbo
- Server Name**: standard-37
- Bind To Schema**: No
- Deterministic**: Yes
- Distinct Values**: No
- GROUP BY Extensic**: <None>
- Output All Column**: No
- SQL Comment**:
- Top Specification**: No
- Update Specificat**: No

The screenshot shows the Microsoft SQL Server Management Studio interface with a query window titled 'SQLQuery8.sql'. The query executed is:

```
SELECT *
FROM DepartmentManager;
```

The Results pane displays the following data:

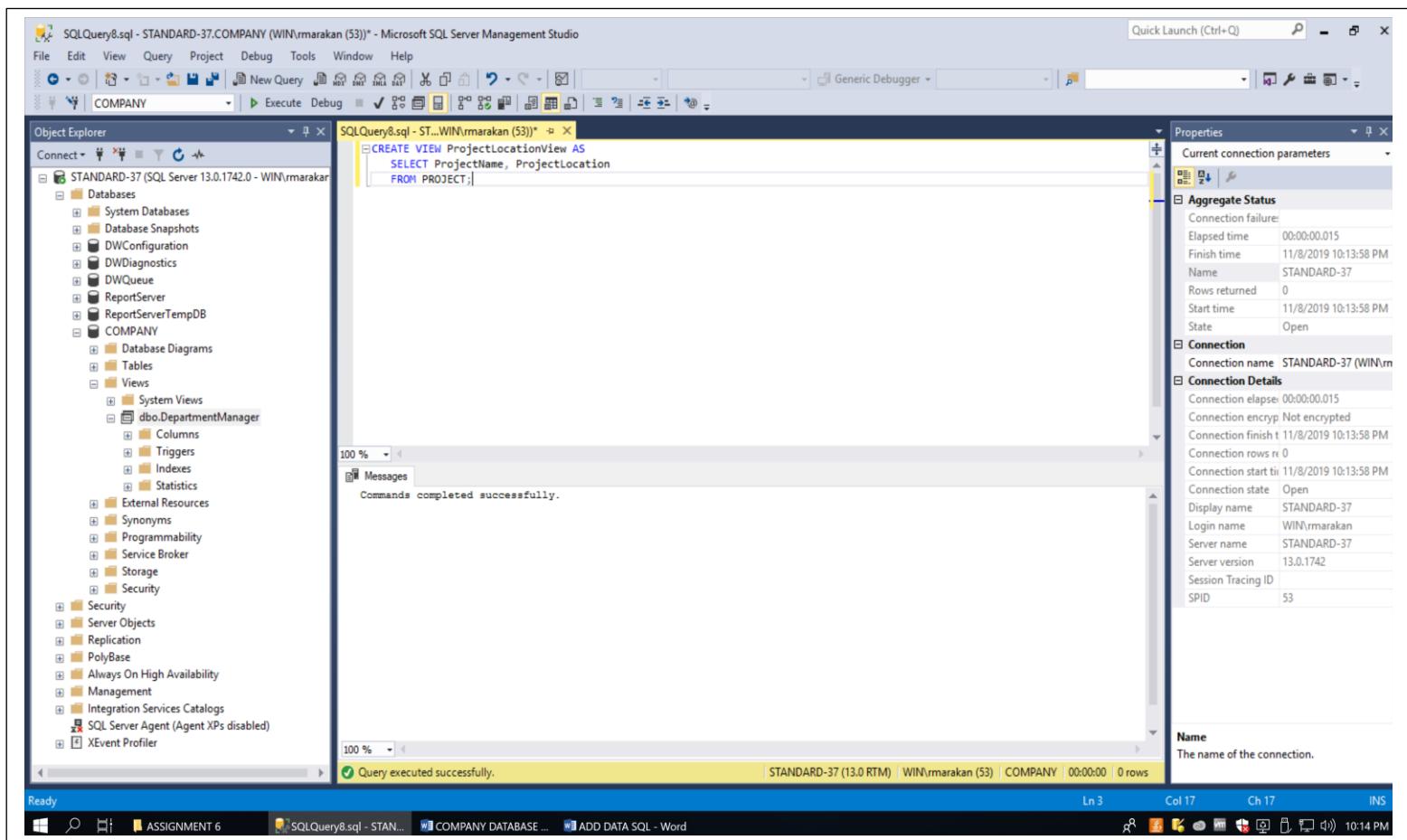
	Department	Manager
1	A	Joan Micro
2	B	John Doe
3	C	Om Singh
4	D	Tameka Fisher
5	E	Jacqueline Duncan
6	F	Latasha Hays
7	G	Pamela Newman
8	H	Zach Baldwin
9	I	Deep Patel
10	J	Steven Smith

The Properties pane on the right shows the connection details:

- Aggregate Status**
- Connection failure**: Elapsed time 00:00:00.294, Finish time 11/8/2019 10:11:22 PM, Name STANDARD-37, Rows returned 10, Start time 11/8/2019 10:11:22 PM, State Open
- Connection**
- Connection Details**
- Connection name**: STANDARD-37 (WIN\rmarakan)
- Connection elapsed**: 00:00:00.294, **Connection encrypt**: Not encrypted, **Connection finish**: 11/8/2019 10:11:22 PM, **Connection rows**: 10, **Connection start**: 11/8/2019 10:11:22 PM, **Connection state**: Open, **Display name**: STANDARD-37, **Login name**: WIN\rmarakan, **Server name**: STANDARD-37, **Server version**: 13.0.1742, **Session Tracing ID**: 53, **SPID**: 53

The status bar at the bottom indicates: Query executed successfully., STANDARD-37 (13.0 RTM) | WIN\rmarakan (53) | COMPANY | 00:00:00 | 10 rows.

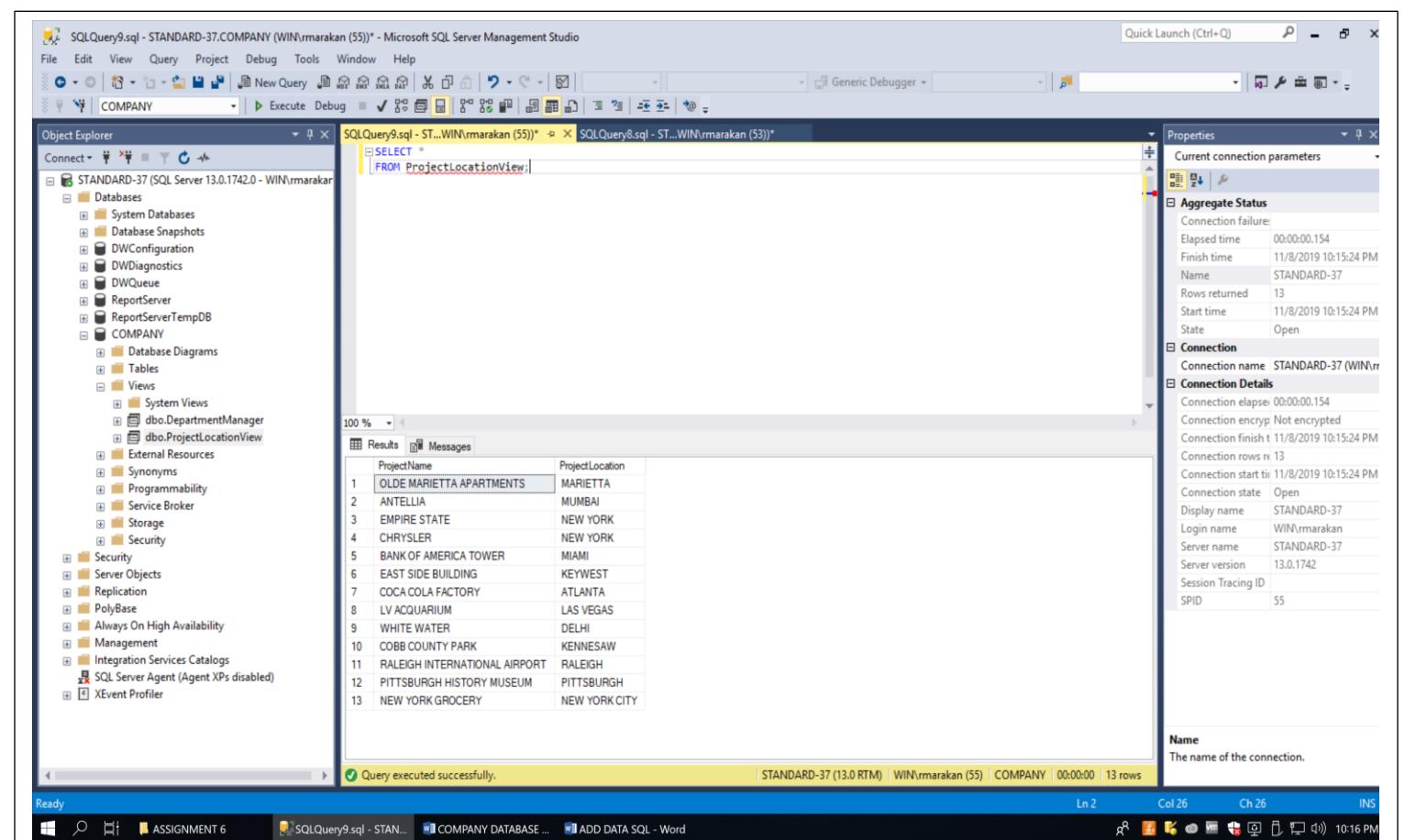
## b) VIEW 2 – ProjectLocationView



The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, the database 'COMPANY' is selected. In the center pane, a query window displays the creation of a view:

```
CREATE VIEW ProjectLocationView AS
    SELECT ProjectName, ProjectLocation
    FROM PROJECT;
```

The status bar at the bottom indicates "Query executed successfully." The Properties pane on the right shows connection details for the current session.



The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, the database 'COMPANY' is selected. In the center pane, a query window displays a select statement from the view:

```
SELECT *
FROM ProjectLocationView;
```

The results pane shows the following data:

	ProjectName	ProjectLocation
1	OLDE MARIETTA APARTMENTS	MARIETTA
2	ANTELIA	MUMBAI
3	EMPIRE STATE	NEW YORK
4	CHRYSLER	NEW YORK
5	BANK OF AMERICA TOWER	MIAMI
6	EAST SIDE BUILDING	KEYWEST
7	COCA COLA FACTORY	ATLANTA
8	LV AQUARIUM	LAS VEGAS
9	WHITE WATER	DELHI
10	COBB COUNTY PARK	KENNESAW
11	RALEIGH INTERNATIONAL AIRPORT	RALEIGH
12	PITTSBURGH HISTORY MUSEUM	PITTSBURGH
13	NEW YORK GROCERY	NEW YORK CITY

The status bar at the bottom indicates "Query executed successfully." The Properties pane on the right shows connection details for the current session.

### c) VIEW 3 – ManagerStartDateView

SQLQuery1.sql - STANDARD-32.COMPANY (WIN\rmrarkan (56)) - Microsoft SQL Server Management Studio

`CREATE VIEW ManagerStartDateView AS  
SELECT DepartmentManager, DepartmentManagerStartDate  
FROM DEPARTMENT;`

Properties

Aggregate Status

Connection failure: Elapsed time: 00:00:00.079  
Finish time: 11/19/2019 8:39:22 AM  
Name: STANDARD-32  
Rows returned: 0  
Start time: 11/19/2019 8:39:22 AM  
State: Open

Connection

Connection name: STANDARD-32 (WIN\rmrarkan)

Connection Details

Connection elapse: 00:00:00.079  
Connection encrypt: Not encrypted  
Connection finish t: 11/19/2019 8:39:22 AM  
Connection rows r: 0  
Connection start t: 11/19/2019 8:39:22 AM  
Connection state: Open  
Display name: STANDARD-32  
Login name: WIN\rmrarkan  
Server name: STANDARD-32  
Server version: 13.0.1742  
Session Tracing ID: 56  
SPID: 56

Messages

Commands completed successfully.

Query executed successfully.

Ready

SQLQuery2.sql - STANDARD-32.COMPANY (WIN\rmrarkan (54)) - Microsoft SQL Server Management Studio

`SELECT *  
FROM ManagerStartDateView;`

Properties

Aggregate Status

Connection failure: Elapsed time: 00:00:00.249  
Finish time: 11/19/2019 8:39:51 AM  
Name: STANDARD-32  
Rows returned: 10  
Start time: 11/19/2019 8:39:51 AM  
State: Open

Connection

Connection name: STANDARD-32 (WIN\rmrarkan)

Connection Details

Connection elapse: 00:00:00.249  
Connection encrypt: Not encrypted  
Connection finish t: 11/19/2019 8:39:51 AM  
Connection rows r: 10  
Connection start t: 11/19/2019 8:39:51 AM  
Connection state: Open  
Display name: STANDARD-32  
Login name: WIN\rmrarkan  
Server name: STANDARD-32  
Server version: 13.0.1742  
Session Tracing ID: 54  
SPID: 54

Results

	DepartmentManager	DepartmentManagerStartDate
1	Joan Micro	2005-10-12
2	John Doe	2001-12-10
3	Om Singh	2000-08-19
4	Tameka Fisher	2000-08-16
5	Jacqueline Duncan	2007-09-25
6	Latasha Hays	2011-12-01
7	Pamela Newman	2015-01-02
8	Zach Baldwin	2015-12-31
9	Deep Patel	2001-10-24
10	Steven Smith	2018-06-10

Messages

Query executed successfully.

Ready

#### d) VIEW 4 – EmployeeAddressView

SQLQuery3.sql - STANDARD-32.COMPANY (WIN\rmarakan (57)) - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

New Query Generic Debugger

COMPANY Execute Debug

Object Explorer

STANDARD-32 (SQL Server 13.0.1742.0)

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

SQLQuery3.sql - ST...WIN\rmarakan (57)\* SQLQuery2.sql - ST...WIN\rmarakan (54)\* SQLQuery1.sql - ST...WIN\rmarakan (56)\*

```
CREATE VIEW EmployeeAddressView AS
    SELECT EmployeeName, EmployeeAddress
    FROM EMPLOYEE;
```

Messages

Commands completed successfully.

Query executed successfully.

Properties

Aggregate Status

Connection failure: Elapsed time: 00:00:00.084  
Finish time: 11/19/2019 8:41:22 AM Name: STANDARD-32 Rows returned: 0 Start time: 11/19/2019 8:41:22 AM State: Open

Connection

Connection name: STANDARD-32 (WIN\rmarakan) Connection elapsed: 00:00:00.084 Connection encrypt: Not encrypted Connection finish t 11/19/2019 8:41:22 AM Connection rows rr 0 Connection start t 11/19/2019 8:41:22 AM Connection state: Open Display name: STANDARD-32 Login name: WIN\rmarakan Server name: STANDARD-32 Server version: 13.0.1742 Session Tracing ID: SPID: 57

Name

The name of the connection.

Ready

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SQLQuery4.sql - STANDARD-32.COMPANY (WIN\rmarakan (58)) - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

New Query Generic Debugger

COMPANY Execute Debug

Object Explorer

STANDARD-32 (SQL Server 13.0.1742.0)

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

SQLQuery4.sql - ST...WIN\rmarakan (58)\* SQLQuery3.sql - ST...WIN\rmarakan (57)\* SQLQuery2.sql - ST...WIN\rmarakan (54)\*

```
SELECT *
FROM EmployeeAddressView;
```

Results

	EmployeeName	EmployeeAddress
1	Deep Patel	9273 Thomas Avenue, New York City, New York
2	Rutvik Marakan	910 Vine Street, New York City, New York
3	Steven Smith	796C Home Village, Keywest, Florida
4	Joan Micro	988 Pearl Lane, Raleigh, North Carolina
5	John Doe	120 JFK Street, Jersey City, New Jersey
6	Tameka Fisher	107 River Drive, Atlanta, Georgia
7	Jacqueline Duncan	120 Galaxy Apartments, Kandivali, Mumbai, Maharashtra, India
8	Latasha Hays	769 West Road, Pittsburgh, Pennsylvania
9	Pamela Newman	927 Hornet Road, Acworth, Georgia
10	Zach Baldwin	7014 Manor Station Rd., New York City, New York
11	Thomas Garr	15 Brown Street, Houston, Texas
12	Kaleigh Kendrick	8550 Spruce Drive, Raleigh, North Carolina
13	Om Singh	145 Chestnut Ave., Delhi, India
14	Douglas Pearl	19 Brown Street, Pittsburgh, Pennsylvania
15	Matt Kral	769 West Road, Delhi, India

Messages

Query executed successfully.

Properties

Aggregate Status

Connection failure: Elapsed time: 00:00:00.229 Finish time: 11/19/2019 8:41:48 AM Name: STANDARD-32 Rows returned: 15 Start time: 11/19/2019 8:41:48 AM State: Open

Connection

Connection name: STANDARD-32 (WIN\rmarakan) Connection elapsed: 00:00:00.229 Connection encrypt: Not encrypted Connection finish t 11/19/2019 8:41:48 AM Connection rows rr 15 Connection start t 11/19/2019 8:41:48 AM Connection state: Open Display name: STANDARD-32 Login name: WIN\rmarakan Server name: STANDARD-32 Server version: 13.0.1742 Session Tracing ID: SPID: 58

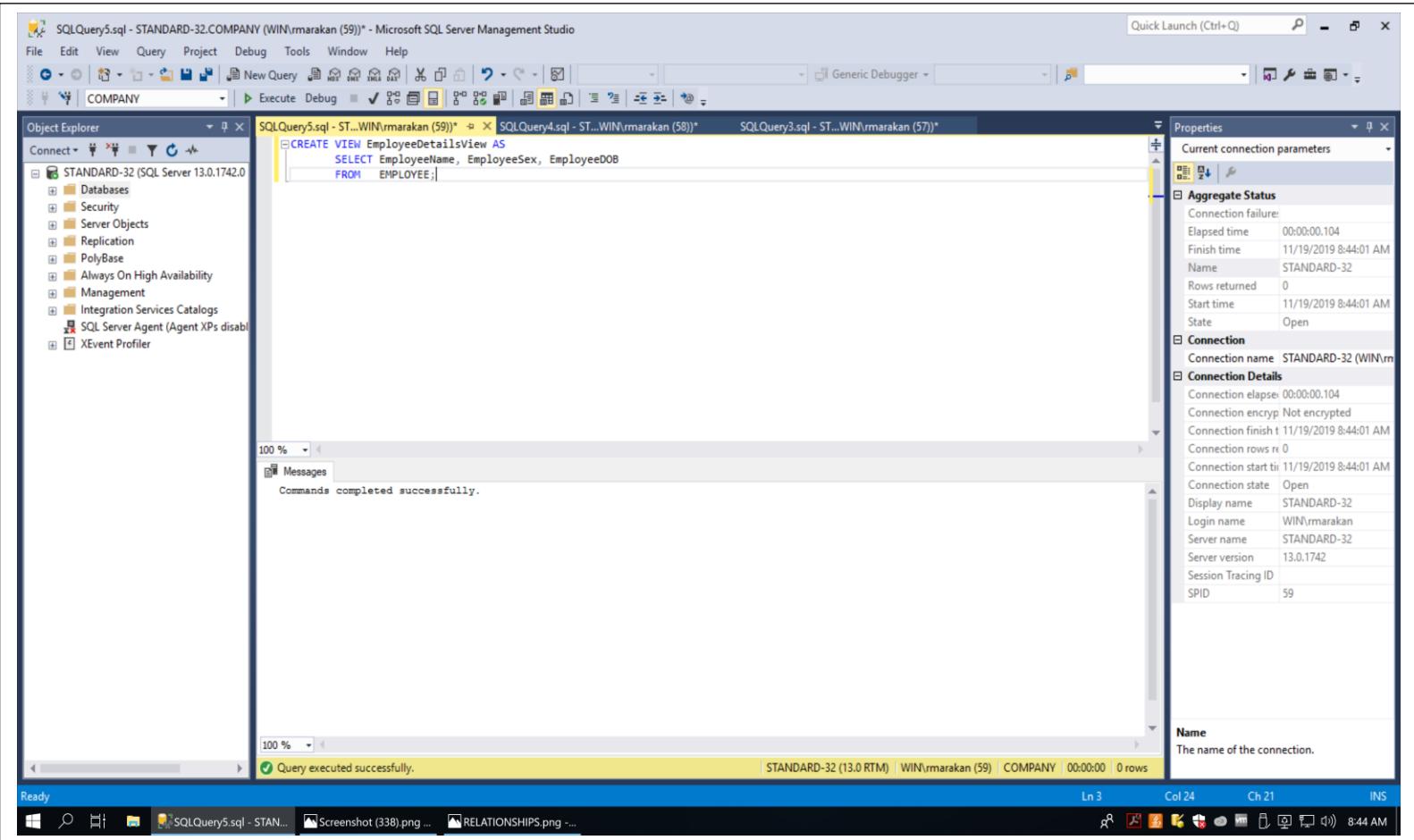
Name

The name of the connection.

Ready

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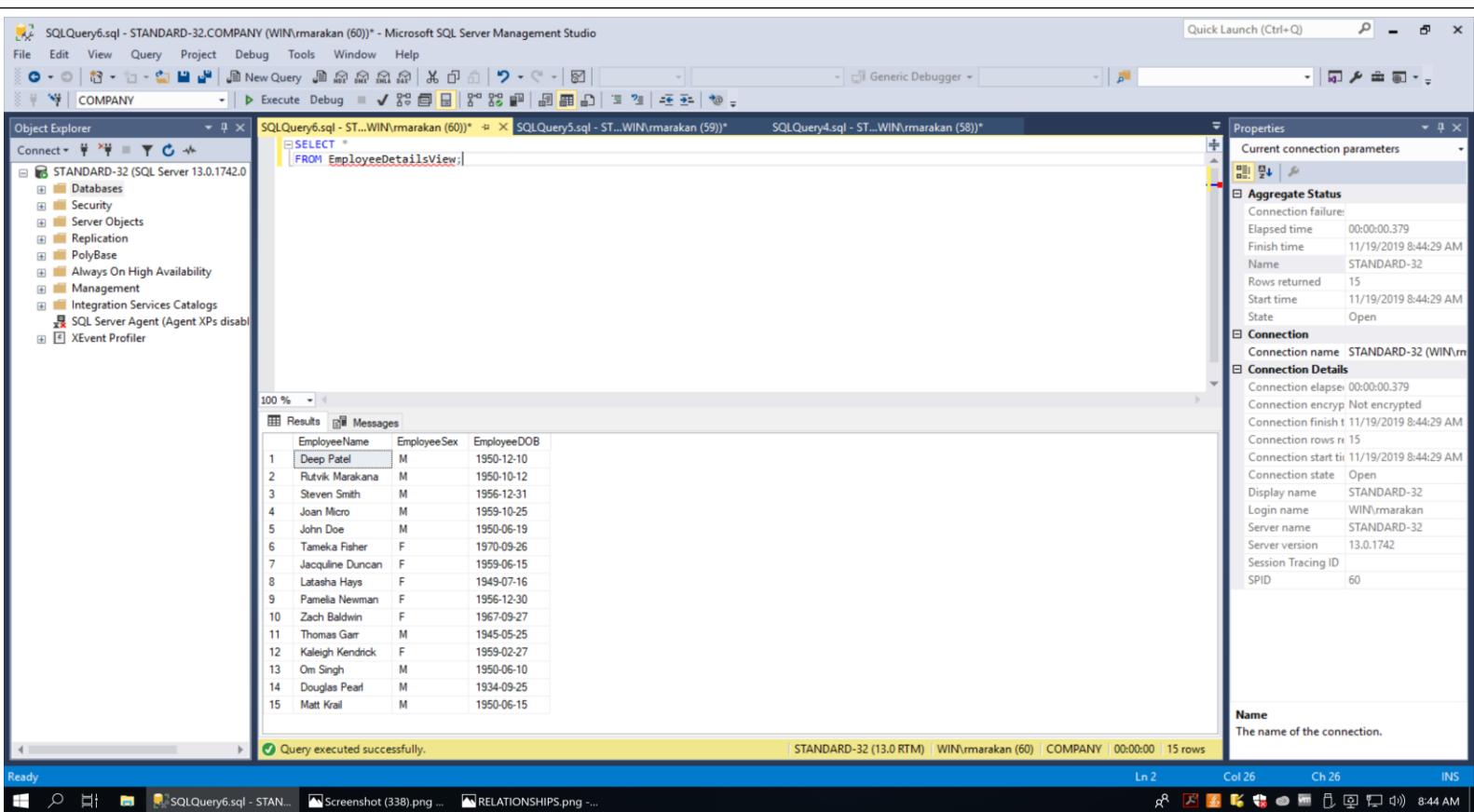
## f) VIEW 5 – EmployeeDetailsView



The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, the connection is to STANDARD-32 (SQL Server 13.0.1742.0). In the center pane, a query window titled 'SQLQuery5.sql' contains the following SQL code:

```
CREATE VIEW EmployeeDetailsView AS
    SELECT EmployeeName, EmployeeSex, EmployeeDOB
    FROM EMPLOYEE;
```

The 'Messages' tab at the bottom of the query window shows the message: "Commands completed successfully." The status bar at the bottom right indicates "Query executed successfully." The Properties pane on the right shows the connection details for the current session.



The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, the connection is to STANDARD-32 (SQL Server 13.0.1742.0). In the center pane, a query window titled 'SQLQuery6.sql' contains the following SQL code:

```
SELECT *
FROM EmployeeDetailsView;
```

The 'Results' tab at the bottom of the query window displays the following data:

	EmployeeName	EmployeeSex	EmployeeDOB
1	Deep Patel	M	1950-12-10
2	Rutvik Marakan	M	1950-10-12
3	Steven Smith	M	1956-12-31
4	Joan Micro	M	1959-10-25
5	John Doe	M	1950-06-19
6	Tameka Fisher	F	1970-09-26
7	Jacqueline Duncan	F	1959-06-15
8	Latasha Hays	F	1949-07-16
9	Pamela Newman	F	1956-12-30
10	Zach Baldwin	F	1967-09-27
11	Thomas Garr	M	1945-05-25
12	Kaleigh Kendrick	F	1959-02-27
13	Om Singh	M	1950-06-10
14	Douglas Pearl	M	1934-09-25
15	Matt Krail	M	1950-06-15

The 'Messages' tab at the bottom of the query window shows the message: "Query executed successfully." The status bar at the bottom right indicates "Query executed successfully." The Properties pane on the right shows the connection details for the current session.

## 4. SQL REPORTS

### a) SQL REPORT 1

The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, the server 'STANDARD-60' is selected. In the center pane, a query window displays the creation of a view:

```
CREATE VIEW EmployeeDependentView AS
    SELECT E.EmployeeName, ED.DependentFirstName
    FROM EMPLOYEE AS E LEFT OUTER JOIN EmployeeDependent AS ED
    ON ED.EmployeeID=E.EmployeeID;
```

The status bar at the bottom indicates 'Query executed successfully.' The Properties pane on the right shows connection details for the current session.

The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, the server 'STANDARD-60' is selected. In the center pane, a query window displays the execution of the previously created view:

```
SELECT *
FROM EmployeeDependentView;
```

The Results pane shows the output of the query:

	EmployeeName	DependentFirstName
1	Deep Patel	Jeffrey
2	Rutvik Marakan	NULL
3	Steven Smith	David
4	Steven Smith	Tiffany
5	Joan Micro	NULL
6	John Doe	NULL
7	Tameka Fisher	Fred
8	Jacqueline Duncan	Mary
9	Latasha Hays	Selma
10	Latasha Hays	Susan
11	Pamela Newman	NULL
12	Zach Baldwin	NULL
13	Thomas Gar	Linda
14	Kaleigh Kendrick	NULL
15	Om Singh	NULL
16	Douglas Pearl	Chris
17	Matt Krall	Jo Anne

The status bar at the bottom indicates 'Query executed successfully.' The Properties pane on the right shows connection details for the current session.

## b) SQL REPORT 2

The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, the connection is to STANDARD-60 (SQL Server 13.0.1742.0). The current database is COMPANY. In the center pane, a query window displays the creation of a view:

```

CREATE VIEW DepartmentProjectHoursView AS
SELECT DepartmentID, ProjectName, SUM(HoursPerWeek) AS TotalProjectHours
FROM PROJECT LEFT OUTER JOIN EMPLOYEE_HOURS_PER_WEEK
ON EMPLOYEE_HOURS_PER_WEEK.ProjectID=PROJECT.ProjectID
GROUP BY DepartmentID, ProjectName;
  
```

The status bar at the bottom indicates "Query executed successfully." and "0 rows". The Properties pane on the right shows the connection details.

The screenshot shows the Microsoft SQL Server Management Studio interface. The connection is now to STANDARD-60 (WIN\marakan (58)). The current database is COMPANY. In the center pane, a query window displays the following code:

```

SELECT *
FROM DepartmentProjectHoursView;
  
```

The results pane shows a table with 13 rows of data:

DepartmentID	ProjectName	TotalProjectHours
504	ANTELLIA	40
501	BANK OF AMERICA TOWER	27
508	CHRYSLER	60
502	COBB COUNTY PARK	NULL
503	COCA COLA FACTORY	15
509	EAST SIDE BUILDING	65
501	EMPIRE STATE	NULL
504	LV AQUARIUM	NULL
507	NEW YORK GROCERY	40
506	OLDE MARIETTA APARTMENTS	29
505	PITTSBURGH HISTORY MUSEUM	67
500	RALEIGH INTERNATIONAL AIRPORT	65
502	WHITE WATER	54

The status bar at the bottom indicates "Query executed successfully." and "13 rows". The Properties pane on the right shows the connection details.

### c) SQL REPORT 3

The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, a connection to 'STANDARD-60 (SQL Server 13.0.1742.0)' is selected. In the center pane, a query window titled 'SQLQuery5.sql' contains the following T-SQL code:

```

CREATE VIEW DepartmentLocationView AS
SELECT DepartmentName, DepartmentLocation
FROM DEPARTMENT JOIN LOCATION
ON LOCATION.DepartmentID=DEPARTMENT.DepartmentID;
  
```

The 'Messages' tab at the bottom of the query window shows the message: 'Commands completed successfully.'

In the status bar at the bottom, it says 'Query executed successfully.' and 'STANDARD-60 (13.0 RTM) | WIN\rmrarkan (59) | COMPANY | 00:00:00 | 0 rows'.

The Properties pane on the right displays connection details for 'STANDARD-60 (WIN\rmrarkan)'. The 'Connection Details' section includes the following information:

- Connection elapse: 00:00:00.075
- Connection encrypt: Not encrypted
- Connection finish t: 11/14/2019 10:24:30 PM
- Connection rows n: 0
- Connection start ti: 11/14/2019 10:24:29 PM
- Connection state: Open
- Display name: STANDARD-60
- Login name: WIN\rmrarkan
- Server name: STANDARD-60
- Server version: 13.0.1742
- Session Tracing ID: 59
- SPID: 59

The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, a connection to 'STANDARD-60 (SQL Server 13.0.1742.0)' is selected. In the center pane, a query window titled 'SQLQuery6.sql' contains the following T-SQL code:

```

SELECT *
FROM DepartmentLocationView;
  
```

The 'Results' tab at the bottom of the query window displays the following data:

	DepartmentName	DepartmentLocation
1	A	RALEIGH
2	B	MIAMI
3	B	NEW YORK CITY
4	C	DELHI
5	C	KENNESAW
6	D	DULUTH
7	E	LAS VEGAS
8	E	MUMBAI
9	F	PITTSBURGH
10	G	ATLANTA
11	G	MARIETTA
12	H	NEW YORK CITY
13	I	NEW YORK
14	J	HOUSTON
15	J	KEYWEST

The 'Messages' tab at the bottom of the query window shows the message: 'Commands completed successfully.'

In the status bar at the bottom, it says 'Query executed successfully.' and 'STANDARD-60 (13.0 RTM) | WIN\rmrarkan (60) | COMPANY | 00:00:00 | 15 rows'.

The Properties pane on the right displays connection details for 'STANDARD-60 (WIN\rmrarkan)'. The 'Connection Details' section includes the following information:

- Connection elapse: 00:00:00.356
- Connection encrypt: Not encrypted
- Connection finish t: 11/14/2019 10:25:37 PM
- Connection rows n: 15
- Connection start ti: 11/14/2019 10:25:37 PM
- Connection state: Open
- Display name: STANDARD-60
- Login name: WIN\rmrarkan
- Server name: STANDARD-60
- Server version: 13.0.1742
- Session Tracing ID: 60
- SPID: 60

## d) SQL REPORT 4

SQLQuery7.sql - STANDARD-60.COMPANY (WIN\rmarakan (61)) - Microsoft SQL Server Management Studio

```
CREATE VIEW DepartmentProjectView AS
    SELECT DepartmentName, ProjectName
    FROM PROJECT JOIN DEPARTMENT
    ON PROJECT.DepartmentID=DEPARTMENT.DepartmentID;
```

Properties

Aggregate Status

- Connection failure: 00:00:0.077
- Elapsed time: 00:00:0.077
- Finish time: 11/14/2019 10:31:26 PM
- Name: STANDARD-60
- Rows returned: 0
- Start time: 11/14/2019 10:31:26 PM
- State: Open

Connection

- Connection name: STANDARD-60 (WIN\rmarakan)

Connection Details

- Connection elapse: 00:00:0.077
- Connection encrypt: Not encrypted
- Connection finish t: 11/14/2019 10:31:26 PM
- Connection rows n: 0
- Connection start t: 11/14/2019 10:31:26 PM
- Connection state: Open
- Display name: STANDARD-60
- Login name: WIN\rmarakan
- Server name: STANDARD-60
- Server version: 13.0.1742
- Session Tracing ID: 61
- SPID: 61

Messages

Commands completed successfully.

Query executed successfully.

Ready

Ln 4 Col 60 Ch 57 INS

SQLQuery8.sql - STANDARD-60.COMPANY (WIN\rmarakan (62)) - Microsoft SQL Server Management Studio

```
SELECT *
FROM DepartmentProjectView;
```

Properties

Aggregate Status

- Connection failure: 00:00:0.248
- Elapsed time: 00:00:0.248
- Finish time: 11/14/2019 10:31:49 PM
- Name: STANDARD-60
- Rows returned: 13
- Start time: 11/14/2019 10:31:49 PM
- State: Open

Connection

- Connection name: STANDARD-60 (WIN\rmarakan)

Connection Details

- Connection elapse: 00:00:0.248
- Connection encrypt: Not encrypted
- Connection finish t: 11/14/2019 10:31:49 PM
- Connection rows n: 13
- Connection start t: 11/14/2019 10:31:49 PM
- Connection state: Open
- Display name: STANDARD-60
- Login name: WIN\rmarakan
- Server name: STANDARD-60
- Server version: 13.0.1742
- Session Tracing ID: 62
- SPID: 62

Results

	DepartmentName	ProjectName
1	G	OLDE MARIETTA APARTMENTS
2	E	ANTELIA
3	B	EMPIRE STATE
4	I	CHRYSLER
5	B	BANK OF AMERICA TOWER
6	J	EAST SIDE BUILDING
7	D	COCA COLA FACTORY
8	E	LV AQUARIUM
9	C	WHITE WATER
10	C	COBB COUNTY PARK
11	A	RALEIGH INTERNATIONAL AIRPORT
12	F	PITTSBURGH HISTORY MUSEUM
13	H	NEW YORK GROCERY

Messages

Commands completed successfully.

Query executed successfully.

Ready

Ln 2 Col 28 Ch 28 INS

## e) SQL REPORT 5

SQLQuery9.sql - STANDARD-60.COMPANY (WIN\rmarakan (63)) - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

Execute Debug

Object Explorer

SQLQuery10.sql - S...WIN\rmarakan (64)\* SQLQuery9.sql - ST...WIN\rmarakan (63)\* SQLQuery8.sql - ST...WIN\rmarakan (62)\*

```
CREATE VIEW EmployeeSupervisorView AS
    SELECT EmployeeName, EmployeeSupervisor
    FROM EMPLOYEE;
```

Properties

Aggregate Status

Connection failure:  
Elapsed time 00:00:055  
Finish time 11/14/2019 10:34:20 PM  
Name STANDARD-60  
Rows returned 0  
Start time 11/14/2019 10:34:20 PM  
State Open

Connection

Connection name STANDARD-60 (WIN\rmarakan)

Connection Details

Connection elapse 00:00:055  
Connection encrypt Not encrypted  
Connection finish t 11/14/2019 10:34:20 PM  
Connection rows n 0  
Connection start t 11/14/2019 10:34:20 PM  
Connection state Open  
Display name STANDARD-60  
Login name WIN\rmarakan  
Server name STANDARD-60  
Server version 13.0.1742  
Session Tracing ID 63  
SPID 63

Messages

Commands completed successfully.

Ready

Ln 3 Col 22 Ch 19 INS

100 %

Query executed successfully.

STANDARD-60 (13.0 RTM) | WIN\rmarakan (63) | COMPANY | 00:00:00 | 0 rows

SQLQuery10.sql - STANDARD-60.COMPANY (WIN\rmarakan (64)) - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

Execute Debug

Object Explorer

SQLQuery10.sql - S...WIN\rmarakan (64)\* SQLQuery9.sql - ST...WIN\rmarakan (63)\* SQLQuery8.sql - ST...WIN\rmarakan (62)\*

```
SELECT *
FROM EmployeeSupervisorView;
```

Properties

Aggregate Status

Connection failure:  
Elapsed time 00:00:247  
Finish time 11/14/2019 10:34:44 PM  
Name STANDARD-60  
Rows returned 15  
Start time 11/14/2019 10:34:43 PM  
State Open

Connection

Connection name STANDARD-60 (WIN\rmarakan)

Connection Details

Connection elapse 00:00:0247  
Connection encrypt Not encrypted  
Connection finish t 11/14/2019 10:34:44 PM  
Connection rows n 15  
Connection start t 11/14/2019 10:34:43 PM  
Connection state Open  
Display name STANDARD-60  
Login name WIN\rmarakan  
Server name STANDARD-60  
Server version 13.0.1742  
Session Tracing ID 64  
SPID 64

Results

	EmployeeName	EmployeeSupervisor
1	Deep Patel	NULL
2	Rutvik Marakan	Deep Patel
3	Steven Smith	NULL
4	Joan Micro	NULL
5	John Doe	NULL
6	Tameka Fisher	NULL
7	Jacqueline Duncan	NULL
8	Latasha Hays	NULL
9	Pamela Newman	NULL
10	Zach Baldwin	NULL
11	Thomas Garr	Steven Smith
12	Kaleigh Kendrick	Joan Micro
13	Om Singh	NULL
14	Douglas Pearl	Latasha Hays
15	Matt Kral	Om Singh

Messages

Query executed successfully.

Ready

Ln 2 Col 29 Ch 29 INS

100 %

Query executed successfully.

STANDARD-60 (13.0 RTM) | WIN\rmarakan (64) | COMPANY | 00:00:00 | 15 rows

## f) SQL REPORT 6

SQLQuery11.sql - STANDARD-60.COMPANY (WIN\rmarakhan (65)) - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

Object Explorer

SQLQuery12.sql - S...WIN\rmarakhan (66)\* SQLQuery11.sql - S...WIN\rmarakhan (65)\* SQLQuery2.sql - ST...WIN\rmarakhan (53)\*

```
CREATE VIEW EmployeeProjectHoursView AS
SELECT EmployeeName, ProjectID, SUM(HoursPerWeek) AS TotalProjectHours
FROM EMPLOYEE JOIN EMPLOYEE_HOURS_PER_WEEK
ON EMPLOYEE_HOURS_PER_WEEK.EmployeeID=EMPLOYEE.EmployeeID
GROUP BY ProjectID, EmployeeName;
```

Properties

Aggregate Status

Connection failure:

- Elapsed time: 00:00:00.175
- Finish time: 11/14/2019 10:43:57 PM
- Name: STANDARD-60
- Rows returned: 0
- Start time: 11/14/2019 10:43:57 PM
- State: Open

Connection

Connection name: STANDARD-60 (WIN\rmarakhan)

Connection Details

- Connection elapsed: 00:00:00.175
- Connection encrypt: Not encrypted
- Connection finish t: 11/14/2019 10:43:57 PM
- Connection rows r: 0
- Connection start t: 11/14/2019 10:43:57 PM
- Connection state: Open
- Display name: STANDARD-60
- Login name: WIN\rmarakhan
- Server name: STANDARD-60
- Server version: 13.0.1742
- Session Tracing ID: 65
- SPID: 65

Messages

Commands completed successfully.

Query executed successfully.

STANDARD-60 (13.0 RTM) | WIN\rmarakhan (65) | COMPANY | 00:00:00 | 0 rows

Ready

Ln 1 Col 37 Ch 37 INS

SQLQuery12.sql - STANDARD-60.COMPANY (WIN\rmarakhan (66)) - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

Object Explorer

SQLQuery12.sql - S...WIN\rmarakhan (66)\* SQLQuery11.sql - S...WIN\rmarakhan (65)\* SQLQuery2.sql - ST...WIN\rmarakhan (53)\*

```
SELECT *
FROM EmployeeProjectHoursView;
```

Properties

Aggregate Status

Connection failure:

- Elapsed time: 00:00:00.251
- Finish time: 11/14/2019 10:44:00 PM
- Name: STANDARD-60
- Rows returned: 15
- Start time: 11/14/2019 10:44:00 PM
- State: Open

Connection

Connection name: STANDARD-60 (WIN\rmarakhan)

Connection Details

- Connection elapsed: 00:00:00.251
- Connection encrypt: Not encrypted
- Connection finish t: 11/14/2019 10:44:00 PM
- Connection rows r: 15
- Connection start t: 11/14/2019 10:44:00 PM
- Connection state: Open
- Display name: STANDARD-60
- Login name: WIN\rmarakhan
- Server name: STANDARD-60
- Server version: 13.0.1742
- Session Tracing ID: 66
- SPID: 66

Results

	EmployeeName	ProjectID	TotalProjectHours
1	Deep Patel	5003	40
2	Douglas Pearl	5011	37
3	Jacqueline Duncan	5001	40
4	Joan Micro	5010	25
5	John Doe	5004	27
6	Kaleigh Kendrick	5010	40
7	Latasha Hays	5011	30
8	Matt Krali	5008	40
9	Om Singh	5008	14
10	Pamela Newman	5000	29
11	Rutvik Marakan	5003	20
12	Steven Smith	5005	40
13	Tameka Fisher	5006	15
14	Thomas Garr	5005	25
15	Zach Baldwin	5012	40

Messages

Query executed successfully.

STANDARD-60 (13.0 RTM) | WIN\rmarakhan (66) | COMPANY | 00:00:00 | 15 rows

Ready

Ln 1 Col 1 INS

## g) SQL REPORT 7

The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, the database 'COMPANY' is selected. In the center pane, a query window displays the creation of a view:

```
CREATE VIEW ProjectHoursView AS
    SELECT ProjectName, SUM(HoursPerWeek) AS TotalProjectHours
    FROM PROJECT LEFT OUTER JOIN EMPLOYEE_HOURS_PER_WEEK
    ON EMPLOYEE_HOURS_PER_WEEK.ProjectID=PROJECT.projectID
    GROUP BY ProjectName;
```

The status bar at the bottom indicates "Query executed successfully." and "13 rows". The Properties pane on the right shows connection details for the current session.

The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, the database 'COMPANY' is selected. In the center pane, a query window displays the execution of the view:

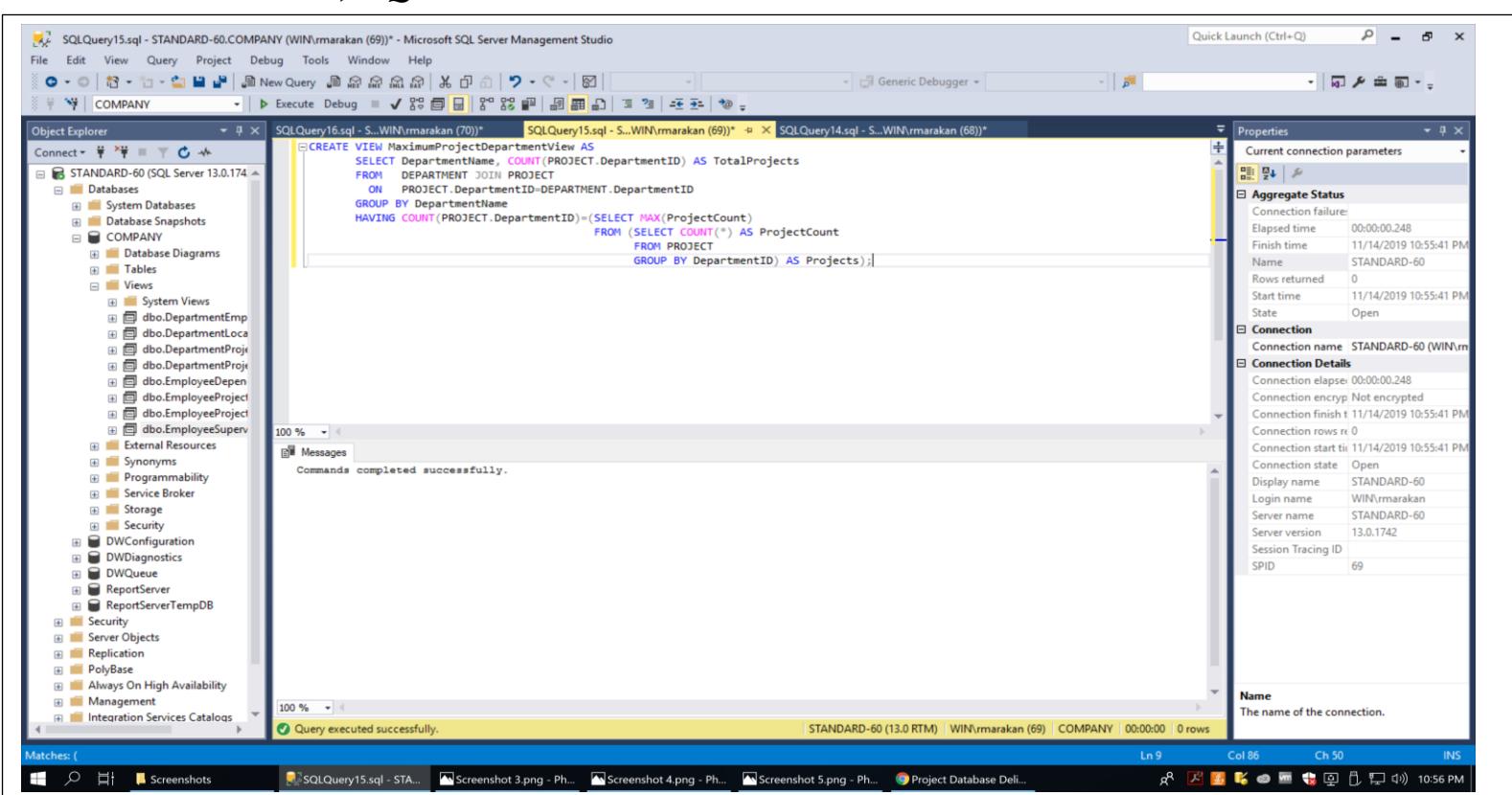
```
SELECT *
FROM ProjectHoursView;
```

The results pane shows a table with 13 rows of data:

ProjectName	TotalProjectHours
ANTELLIA	40
BANK OF AMERICA TOWER	27
CHRYSLER	60
COBB COUNTY PARK	NULL
COCA COLA FACTORY	15
EAST SIDE BUILDING	65
EMPIRE STATE	NULL
LV AQUARIUM	NULL
NEW YORK GROCERY	40
OLDE MARIETTA APARTMENTS	29
PITTSBURGH HISTORY MUSEUM	67
RALEIGH INTERNATIONAL AIRPORT	65
WHITE WATER	54

The status bar at the bottom indicates "Query executed successfully." and "13 rows". The Properties pane on the right shows connection details for the current session.

## *h) SQL REPORT 8*



SQLQuery15.sql - STANDARD-60.COMPANY (WIN\rmrarkan (69)) - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

Object Explorer

STANDARD-60 (SQL Server 13.0.174)

- Databases
- COMPANY
- Tables
- Views
- System Views
- dbo.DepartmentEmp
- dbo.DepartmentLoca
- dbo.DepartmentProj
- dbo.EmployeeDepen
- dbo.EmployeeProject
- dbo.EmployeeProject
- dbo.EmployeeSuperv
- External Resources
- Synonyms
- Programmability
- Service Broker
- Storage
- Security
- DWConfiguration
- DWDiagnostics
- DWQueue
- ReportServer
- ReportServerTempDB
- Security
- Server Objects
- Replication
- PolyBase
- Always On High Availability
- Management
- Integration Services Catalogs

SQLQuery16.sql - S...WIN\rmrarkan (70)\*

```
CREATE VIEW MaximumProjectDepartmentView AS
SELECT DepartmentName, COUNT(PROJECT.DepartmentID) AS TotalProjects
FROM DEPARTMENT JOIN PROJECT
ON PROJECT.DepartmentID=DEPARTMENT.DepartmentID
GROUP BY DepartmentName
HAVING COUNT(PROJECT.DepartmentID)=(SELECT MAX(ProjectCount)
FROM (SELECT COUNT(*) AS ProjectCount
FROM PROJECT
GROUP BY DepartmentID) AS Projects);
```

Properties

Aggregate Status

Connection failure:

- Elapsed time: 00:00:00.248
- Finish time: 11/14/2019 10:55:41 PM
- Name: STANDARD-60
- Rows returned: 0
- Start time: 11/14/2019 10:55:41 PM
- State: Open

Connection

Connection name: STANDARD-60 (WIN\rmrarkan)

Connection Details

Connection elapsed: 00:00:00.248

Connection encrypt: Not encrypted

Connection finish t: 11/14/2019 10:55:41 PM

Connection rows r: 0

Connection start t: 11/14/2019 10:55:41 PM

Connection state: Open

Display name: STANDARD-60

Login name: WIN\rmrarkan

Server name: STANDARD-60

Server version: 13.0.1742

Session Tracing ID: 69

SPID: 69

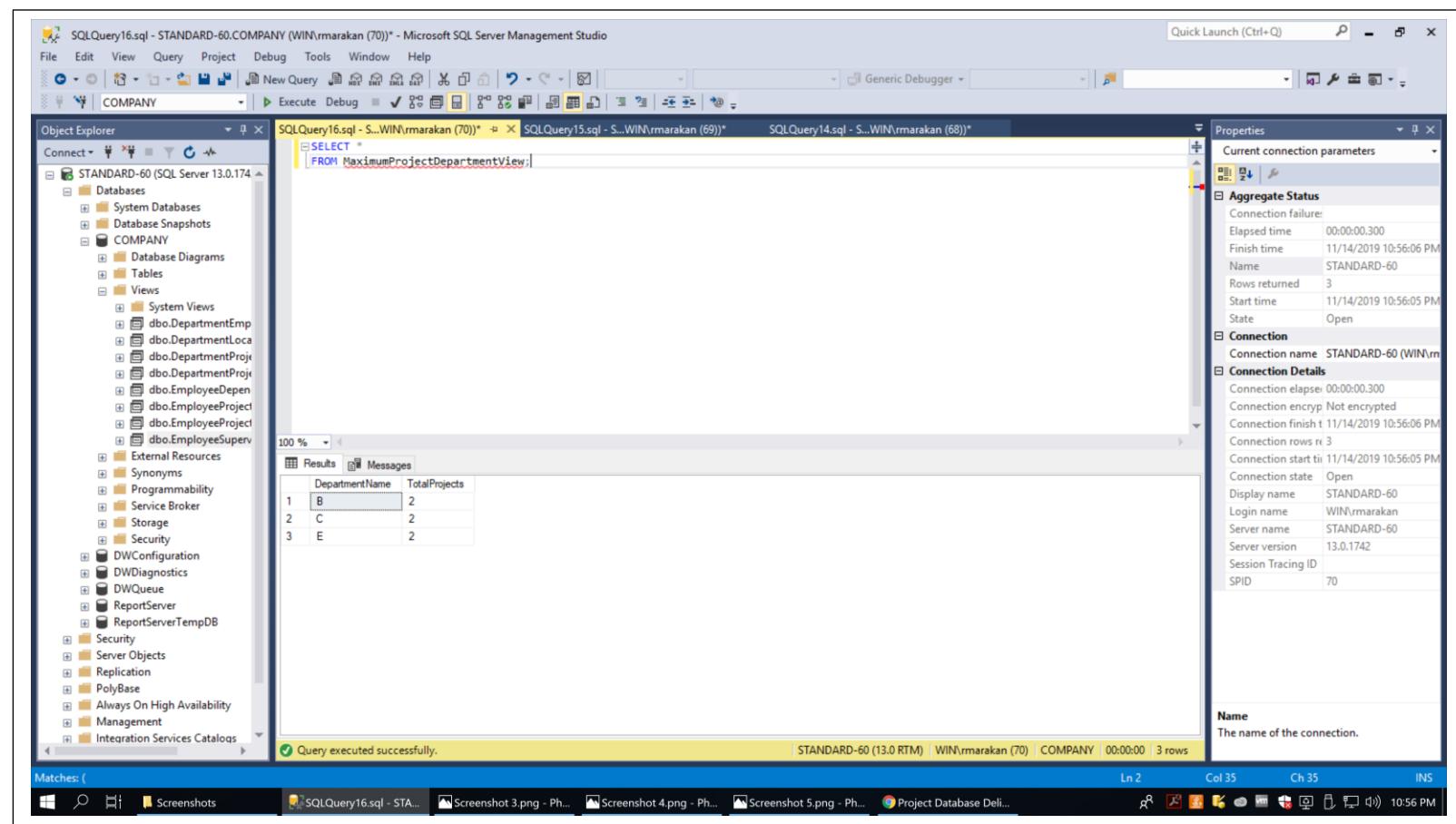
Messages

Commands completed successfully.

Query executed successfully.

STANDARD-60 (13.0 RTM) | WIN\rmrarkan (69) | COMPANY | 00:00:00 | 0 rows

Ln 9 Col 86 Ch 50 INS



SQLQuery16.sql - STANDARD-60.COMPANY (WIN\rmrarkan (70)) - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

Object Explorer

STANDARD-60 (SQL Server 13.0.174)

- Databases
- COMPANY
- Tables
- Views
- System Views
- dbo.DepartmentEmp
- dbo.DepartmentLoca
- dbo.DepartmentProj
- dbo.EmployeeDepen
- dbo.EmployeeProject
- dbo.EmployeeProject
- dbo.EmployeeSuperv
- External Resources
- Synonyms
- Programmability
- Service Broker
- Storage
- Security
- DWConfiguration
- DWDiagnostics
- DWQueue
- ReportServer
- ReportServerTempDB
- Security
- Server Objects
- Replication
- PolyBase
- Always On High Availability
- Management
- Integration Services Catalogs

SQLQuery16.sql - S...WIN\rmrarkan (70)\*

```
SELECT *
FROM MaximumProjectDepartmentView;
```

Properties

Aggregate Status

Connection failure:

- Elapsed time: 00:00:00.300
- Finish time: 11/14/2019 10:56:06 PM
- Name: STANDARD-60
- Rows returned: 3
- Start time: 11/14/2019 10:56:05 PM
- State: Open

Connection

Connection name: STANDARD-60 (WIN\rmrarkan)

Connection Details

Connection elapsed: 00:00:00.300

Connection encrypt: Not encrypted

Connection finish t: 11/14/2019 10:56:06 PM

Connection rows r: 3

Connection start t: 11/14/2019 10:56:05 PM

Connection state: Open

Display name: STANDARD-60

Login name: WIN\rmrarkan

Server name: STANDARD-60

Server version: 13.0.1742

Session Tracing ID: 70

SPID: 70

Results

DepartmentName	TotalProjects
B	2
C	2
E	2

Messages

Query executed successfully.

STANDARD-60 (13.0 RTM) | WIN\rmrarkan (70) | COMPANY | 00:00:00 | 3 rows

Ln 2 Col 35 Ch 35 INS

## i) SQL REPORT 9

SQLQuery17.sql - STANDARD-60.COMPANY (WIN\rmarakan (71)) - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

Execute Debug

Object Explorer

Connect COMPANY

DATABASES COMPANY

CREATE VIEW MaximumProjectEmployeeView AS  
 SELECT EmployeeName, COUNT(EMPLOYEE\_HOURS\_PER\_WEEK.EmployeeID) AS TotalAssignedProjects  
 FROM EMPLOYEE JOIN EMPLOYEE\_HOURS\_PER\_WEEK  
 ON EMPLOYEE.EmployeeID=EMPLOYEE\_HOURS\_PER\_WEEK.EmployeeID  
 GROUP BY EmployeeName  
 HAVING COUNT(EMPLOYEE\_HOURS\_PER\_WEEK.EmployeeID)=(SELECT MAX(ProjectCount)  
 FROM (SELECT COUNT(\*) AS ProjectCount  
 FROM EMPLOYEE\_HOURS\_PER\_WEEK  
 GROUP BY EmployeeID) AS TotalProjects);

Properties

Current connection parameters

Aggregate Status

Connection failure:  
 Elapsed time 00:00:00.086  
 Finish time 11/14/2019 11:04:40 PM  
 Name STANDARD-60  
 Rows returned 0  
 Start time 11/14/2019 11:04:39 PM  
 State Open

Connection

Connection name STANDARD-60 (WIN\rmarakan)

Connection Details

Connection elapsed 00:00:00.086  
 Connection encrypt Not encrypted  
 Connection finish t 11/14/2019 11:04:40 PM  
 Connection rows n 0  
 Connection start t 11/14/2019 11:04:39 PM  
 Connection state Open  
 Display name STANDARD-60  
 Login name WIN\rmarakan  
 Server name STANDARD-60  
 Server version 13.0.1742  
 Session Tracing ID  
 SPID 71

Messages

Commands completed successfully.

Query executed successfully.

STANDARD-60 (13.0 RTM) | WIN\rmarakan (71) | COMPANY | 00:00:00 | 0 rows

Ready

Screenshots SQLQuery17.sql - STA... Screenshot 4.png - Ph... Screenshot 5.png - Ph... Project Database Deli...

Ln 9 Col 87 Ch 51 INS

SQLQuery18.sql - STANDARD-60.COMPANY (WIN\rmarakan (72)) - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

Execute Debug

Object Explorer

Connect COMPANY

DATABASES COMPANY

SELECT \*  
 FROM MaximumProjectEmployeeView;

Properties

Current connection parameters

Aggregate Status

Connection failure:  
 Elapsed time 00:00:00.173  
 Finish time 11/14/2019 11:05:26 PM  
 Name STANDARD-60  
 Rows returned 15  
 Start time 11/14/2019 11:05:26 PM  
 State Open

Connection

Connection name STANDARD-60 (WIN\rmarakan)

Connection Details

Connection elapsed 00:00:00.173  
 Connection encrypt Not encrypted  
 Connection finish t 11/14/2019 11:05:26 PM  
 Connection rows n 15  
 Connection start t 11/14/2019 11:05:26 PM  
 Connection state Open  
 Display name STANDARD-60  
 Login name WIN\rmarakan  
 Server name STANDARD-60  
 Server version 13.0.1742  
 Session Tracing ID  
 SPID 72

Results

EmployeeName	TotalAssignedProjects
Deep Patel	1
Rutvik Marakan	1
Steven Smith	1
Joan Micro	1
John Doe	1
Tameka Fisher	1
Jacqueline Duncan	1
Latasha Hays	1
Pamela Newman	1
Zach Baldwin	1
Thomas Garr	1
Kaleigh Kendrick	1
Om Singh	1
Douglas Pearl	1
Matt Kral	1

Messages

Query executed successfully.

STANDARD-60 (13.0 RTM) | WIN\rmarakan (72) | COMPANY | 00:00:00 | 15 rows

Ready

Screenshots SQLQuery18.sql - STA... Screenshot 4.png - Ph... Screenshot 5.png - Ph... Project Database Deli...

Ln 2 Col 33 Ch 33 INS

## j) SQL REPORT 10

SQLQuery19.sql - STANDARD-60.COMPANY (WIN\rmarakan (73)) - Microsoft SQL Server Management Studio

```

CREATE VIEW MaximumHoursProjectView AS
    SELECT ProjectName, SUM(HoursPerWeek) AS TotalProjectHours
    FROM PROJECT JOIN EMPLOYEE_HOURS_PER_WEEK
    ON EMPLOYEE_HOURS_PER_WEEK.ProjectID=PROJECT.ProjectID
    GROUP BY Projectname
    HAVING SUM(HoursPerWeek)= (SELECT MAX(ProjectHours)
                                FROM (SELECT SUM(HoursPerWeek) AS ProjectHours
                                      FROM EMPLOYEE_HOURS_PER_WEEK
                                      GROUP BY ProjectID) AS Project);

```

Messages

Commands completed successfully.

Properties

Current connection parameters

Aggregate Status

Connection failure: Elapsed time: 00:00:00.243 Finish time: 11/14/2019 11:12:06 PM Name: STANDARD-60 Rows returned: 0 Start time: 11/14/2019 11:12:05 PM State: Open

Connection

Connection name: STANDARD-60 (WIN\rmarakan) Connection elapsed: 00:00:00.243 Connection encrypt: Not encrypted Connection finish: 11/14/2019 11:12:06 PM Connection rows: 0 Connection start: 11/14/2019 11:12:05 PM Connection state: Open Display name: STANDARD-60 Login name: WIN\rmarakan Server name: STANDARD-60 Server version: 13.0.1742 Session Tracing ID: SPID: 73

Name

The name of the connection.

Matches: (

Ln 9 Col 73 Ch 43 INS

SQLQuery20.sql - STANDARD-60.COMPANY (WIN\rmarakan (74)) - Microsoft SQL Server Management Studio

```

SELECT *
FROM MaximumHoursProjectView;

```

Results

ProjectName	TotalProjectHours
PITTSBURGH HISTORY MUSEUM	67

Messages

Query executed successfully.

Properties

Current connection parameters

Aggregate Status

Connection failure: Elapsed time: 00:00:00.264 Finish time: 11/14/2019 11:12:29 PM Name: STANDARD-60 Rows returned: 1 Start time: 11/14/2019 11:12:29 PM State: Open

Connection

Connection name: STANDARD-60 (WIN\rmarakan) Connection elapsed: 00:00:00.264 Connection encrypt: Not encrypted Connection finish: 11/14/2019 11:12:29 PM Connection rows: 1 Connection start: 11/14/2019 11:12:29 PM Connection state: Open Display name: STANDARD-60 Login name: WIN\rmarakan Server name: STANDARD-60 Server version: 13.0.1742 Session Tracing ID: SPID: 74

Name

The name of the connection.

Matches: (

Ln 2 Col 30 Ch 30 INS