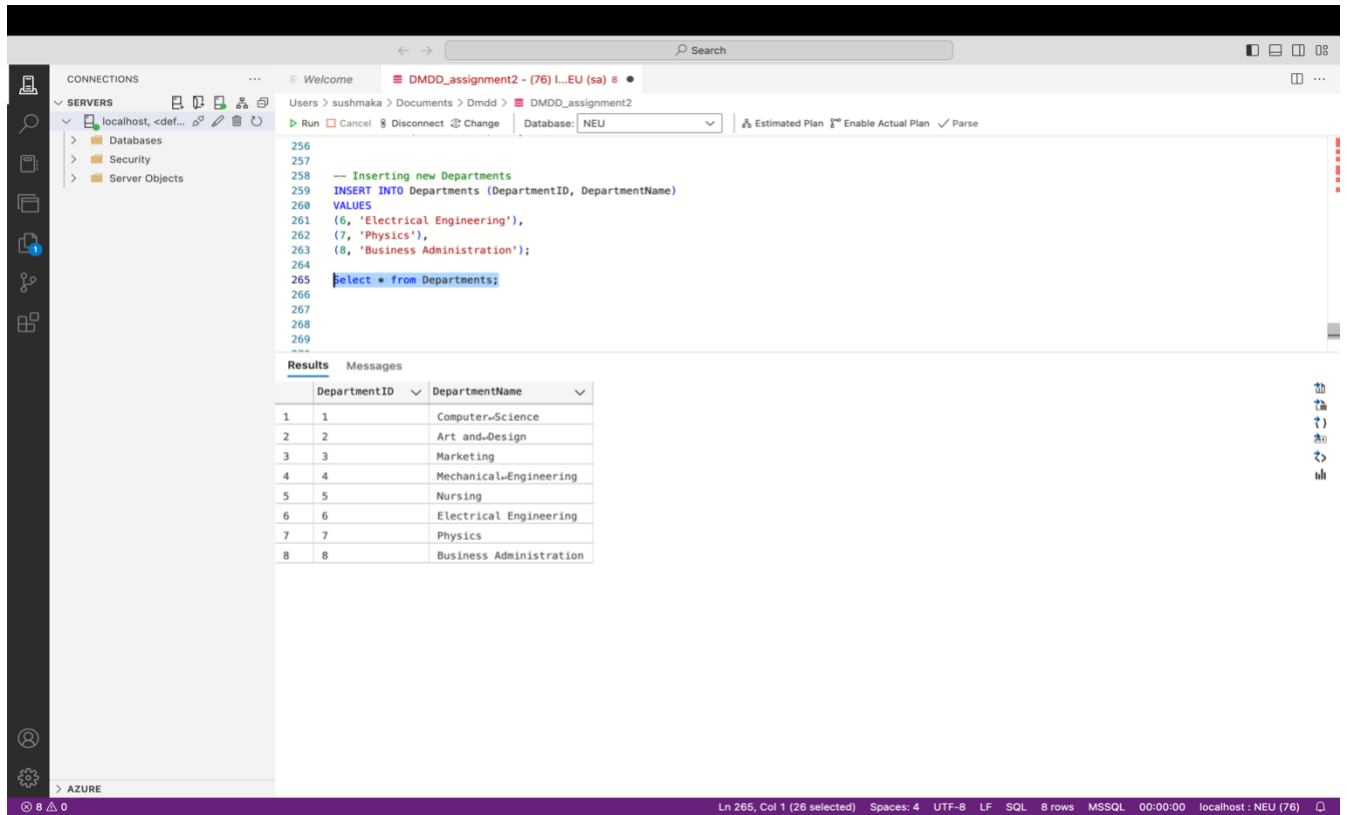


DAMG6210 - Data Management and Database Design

Lab 03



The screenshot displays the SQL Server Enterprise Manager interface. The left pane shows the 'SERVERS' tree with 'localhost' expanded, showing 'Databases', 'Security', and 'Server Objects'. The central pane shows a query window for 'DMDD_assignment2 - (76) L...EU (sa)'. The query is as follows:

```
256  
257  
258 -- Inserting new Departments  
259 INSERT INTO Departments (DepartmentID, DepartmentName)  
260 VALUES  
261 (6, 'Electrical Engineering'),  
262 (7, 'Physics'),  
263 (8, 'Business Administration');  
264  
265 select * from Departments;  
266  
267  
268  
269
```

The 'Results' pane shows the output of the query, displaying a table with 8 rows and 2 columns: 'DepartmentID' and 'DepartmentName'.

DepartmentID	DepartmentName
1	Computer Science
2	Art and Design
3	Marketing
4	Mechanical Engineering
5	Nursing
6	Electrical Engineering
7	Physics
8	Business Administration

The status bar at the bottom indicates 'Ln 265, Col 1 (26 selected) Spaces: 4 UTF-8 LF SQL 8 rows MSSQL 00:00:00 localhost : NEU (76)'.

SQL Server Enterprise Edition (64-bit) - DMDD_assignment2 - (76) L...EU (sa) 8

Users > sushmaka > Documents > Dmdd > DMDD_assignment2

Run Cancel Disconnect Change Database: NEU Estimated Plan Enable Actual Plan Parse

```
278
279
280 -- Insert new courses
281 INSERT INTO Courses (CourseID, CourseName, DepartmentID, Credits)
282 VALUES
283 (6, 'Electrical Circuits', 6, 4), -- Electrical Engineering
284 (7, 'Quantum Mechanics', 7, 3), -- Physics
285 (8, 'Business Analytics', 8, 3), -- Business Administration
286 (9, 'Nursing Fundamentals', 5, 3), -- Nursing
287 (10, 'Patient Care', 5, 4); -- Nursing
288
289
290 select * from Courses;
```

Results Messages

	CourseID	CourseName	DepartmentID	Credits
1	1	Introduction to Programming	1	3
2	2	Calculus I	1	4
3	3	Graphic Design Fundamentals	2	3
4	4	Principles of Marketing	3	3
5	5	Thermodynamics	4	4
6	6	Electrical Circuits	6	4
7	7	Quantum Mechanics	7	3
8	8	Business Analytics	8	3
9	9	Nursing Fundamentals	5	3
10	10	Patient Care	5	4

Ln 290, Col 1 (22 selected) Spaces: 4 UTF-8 LF SQL 10 rows MSSQL 00:00:00 localhost: NEU (76)

SQL Server Enterprise Edition (64-bit) - DMDD_assignment2 - (76) L...EU (sa) 8

Users > sushmaka > Documents > Dmdd > DMDD_assignment2

Run Cancel Disconnect Change Database: NEU Estimated Plan Enable Actual Plan Parse

```
269 -- Insert new professors
270 INSERT INTO Professors (ProfessorID, FirstName, LastName, Email, DepartmentID)
271 VALUES
272 (6, 'Alice', 'Anderson', 'alice.anderson@example.com', 6), -- Electrical Engineering
273 (7, 'Bob', 'Taylor', 'bob.taylor@example.com', 7), -- Physics
274 (8, 'Charlie', 'Johnson', 'charlie.johnson@example.com', 8), -- Business Administration
275 (9, 'Diana', 'Wilson', 'diana.wilson@example.com', 5), -- Nursing
276 (10, 'Ethan', 'Moore', 'ethan.moore@example.com', 5); -- Nursing
277
278
279 select * from Professors;
```

Results Messages

	ProfessorID	FirstName	LastName	Email	DepartmentID
1	1	Professor	Johnson	prof.johnson@example.com	1
2	2	Mary	Smith	mary.smith@example.com	2
3	3	Robert	Davis	robert.davis@example.com	3
4	4	Elizabeth	Wilson	elizabeth.wilson@example.com	4
5	5	William	Brown	william.brown@example.com	5
6	6	Alice	Anderson	alice.anderson@example.com	6
7	7	Bob	Taylor	bob.taylor@example.com	7
8	8	Charlie	Johnson	charlie.johnson@example.com	8
9	9	Diana	Wilson	diana.wilson@example.com	5
10	10	Ethan	Moore	ethan.moore@example.com	5

Ln 279, Col 1 (25 selected) Spaces: 4 UTF-8 LF SQL 10 rows MSSQL 00:00:00 localhost: NEU (76)

SQL Server Enterprise Manager interface showing the execution of a query in the DMDD_assignment2 database.

CONNECTIONS: Servers > localhost <default> (sa) > Databases > NEU > Tables > CourseSections

Query:

```
-- Inserting new CourseSections
INSERT INTO CourseSections (CourseSectionID, CourseID, ProfessorID, Semester, Year)
VALUES
(11, 6, 6, 'Fall', 2024),
(12, 7, 7, 'Spring', 2024),
(13, 8, 8, 'Fall', 2024);

Select * from CourseSections;
```

Results:

CourseSectionID	CourseID	ProfessorID	Semester	Year
1	1	1	Fall	2023
2	2	1	Spring	2023
3	3	2	Fall	2023
4	4	2	Spring	2023
5	5	3	Fall	2023
6	6	3	Spring	2023
7	7	4	Fall	2023
8	8	4	Spring	2023
9	9	5	Fall	2023
10	10	5	Spring	2023
11	11	6	Fall	2024
12	12	7	Spring	2024
13	13	8	Fall	2024

Ln 304, Col 1 (29 selected) Spaces: 4 UTF-8 LF SQL 13 rows MSSQL 00:00:00 localhost : NEU (76)

SQL Server Enterprise Manager interface showing the execution of a query in the DMDD_assignment2 database.

CONNECTIONS: Servers > localhost <default> (sa) > Databases > NEU > Tables > Majors

Query:

```
-- Inserting new Majors
INSERT INTO Majors (MajorID, MajorName)
VALUES
(6, 'Electrical Engineering'),
(7, 'Physics'),
(8, 'Business Administration');

Select * from Majors;
```

Results:

MajorID	MajorName
1	Computer Science
2	Art and Design
3	Marketing
4	Mechanical Engineering
5	Nursing
6	Electrical Engineering
7	Physics
8	Business Administration

Ln 312, Col 1 (21 selected) Spaces: 4 UTF-8 LF SQL 8 rows MSSQL 00:00:00 localhost : NEU (76)

SQL Server Enterprise Edition (64-bit) - DMDD_assignment2 - (76) Localhost (sa)

Users > sushmaka > Documents > Dmdd > DMDD_assignment2

Database: NEU

Run Cancel Disconnect Change Estimated Plan Enable Actual Plan Parse

```
314
315 -- Inserting new Advisors
316 INSERT INTO Advisors (AdvisorID, FirstName, LastName, Email, DepartmentID)
317 VALUES
318 (6, 'Diana', 'Williams', 'diana.williams@example.com', 6), -- Electrical Engineering
319 (7, 'Edward', 'Robinson', 'edward.robinson@example.com', 7), -- Physics
320 (8, 'Fiona', 'Moore', 'fiona.moore@example.com', 8);
321
322
323 select * from Advisors;
```

Results Messages

	AdvisorID	FirstName	LastName	Email	DepartmentID
1	1	Advisor	Smith	advisor.smith@example.com	1
2	2	Sarah	Miller	sarah.miller@example.com	2
3	3	James	Davis	james.davis@example.com	3
4	4	Jennifer	Anderson	jennifer.anderson@example.com	4
5	5	Karen	Clark	karen.clark@example.com	5
6	6	Diana	Williams	diana.williams@example.com	6
7	7	Edward	Robinson	edward.robinson@example.com	7
8	8	Fiona	Moore	fiona.moore@example.com	8

Ln 323, Col 1 (23 selected) Spaces: 4 UTF-8 LF SQL 8 rows MSSQL 00:00:00 localhost: NEU (76)

SQL Server Enterprise Edition (64-bit) - DMDD_assignment2 - (76) Localhost (sa)

Users > sushmaka > Documents > Dmdd > DMDD_assignment2

Database: NEU

Run Cancel Disconnect Change Estimated Plan Enable Actual Plan Parse

```
324
325
326 -- Inserting new Students
327 INSERT INTO Students (StudentID, FirstName, LastName, Email, Birthdate, MajorID, AdvisorID)
328 VALUES
329 (11, 'James', 'White', 'james.white@example.com', '2001-09-20', 6, 6), -- Electrical Engineering, Diana Williams
330 (12, 'Laura', 'Green', 'laura.green@example.com', '2002-10-11', 7, 7), -- Physics, Edward Robinson
331 (13, 'Henry', 'King', 'henry.king@example.com', '2003-11-22', 8, 8); -- Business Administration, Fiona Moore
332
333
334 select * from Students;
```

Results Messages

	StudentID	FirstName	LastName	Email	Birthdate	MajorID	AdvisorID
1	1	John	Doe	john.doe@example.com	1995-08-15	1	1
2	2	Jane	Smith	jane.smith@example.com	1996-03-22	1	1
3	3	Michael	Johnson	michael.johnson@example.com	1997-02-10	2	2
4	4	Emily	Wilson	emily.wilson@example.com	1998-05-28	3	3
5	5	David	Brown	david.brown@example.com	1999-11-15	4	4
6	6	Sarah	Thomas	sarah.thomas@example.com	2000-04-12	5	5
7	7	Daniel	Harris	daniel.harris@example.com	1999-07-30	1	1
8	8	Linda	Allen	linda.allen@example.com	2001-01-25	2	2
9	9	William	Young	william.young@example.com	2002-03-18	3	3
10	10	Emily	Martinez	emily.martinez@example.com	2003-05-10	4	4
11	11	James	White	james.white@example.com	2001-09-20	6	6
12	12	Laura	Green	laura.green@example.com	2002-10-11	7	7
13	13	Henry	King	henry.king@example.com	2003-11-22	8	8

Ln 334, Col 1 (23 selected) Spaces: 4 UTF-8 LF SQL 13 rows MSSQL 00:00:00 localhost: NEU (76)

CONNECTIONS

SERVERS

localhost, <default> (sa)

Databases

System Databases

master

model

msdb

tempdb

NEU

Tables

dbo.Advisors

dbo.Courses

dbo.CourseSections

dbo.Departments

dbo.Majors

dbo.Professors

dbo.Registrations

dbo.Students

Dropped Ledger Tables

Views

Synonyms

Programmability

External Resources

Service Broker

Storage

Security

Security

Server Objects

Welcome

DMDD_assignment2 - (76) L...EU (sa) 8

Users > sushmaka > Documents > Dmdd > DMDD_assignment2

Run Cancel Disconnect Change Database: NEU Estimated Plan Enable Actual Plan Parse

```
336
337 -- Inserting new Registrations (students registering for CourseSections)
338 INSERT INTO Registrations (RegistrationID, StudentID, CourseSectionID, Grade)
339 VALUES
340 (11, 11, 11, 'A'), -- James White registered for Electrical Circuits
341 (12, 12, 12, 'B'), -- Laura Green registered for Quantum Mechanics
342 (13, 13, 13, 'A'); -- Henry King registered for Business Analytics
343
344
345 Select * from Registrations;
```

Results Messages

	RegistrationID	StudentID	CourseSectionID	Grade
1	1	1	1	A
2	2	1	3	B
3	3	2	2	A
4	4	2	4	B
5	5	3	5	A
6	6	3	7	B
7	7	4	8	A
8	8	4	10	B
9	9	5	9	A
10	10	5	6	B
11	11	11	11	A
12	12	12	12	B
13	13	13	13	A

Results grid

AZURE

Ln 345, Col 1 (28 selected) Spaces: 4 UTF-8 LF SQL 13 rows MSSQL 00:00:00 localhost : NEU (76)