

Pradyumna T
AP22110010400

i CSE – wCLOUD COMPUTING ASSIGNMENT - 10

Relational Database in Azure SQL using SSMS

The screenshot displays the Microsoft Azure SQL Database Query Editor interface. The left sidebar shows the 'Query editor (preview)' tab selected. The main area contains a SQL query (Query 1) and its results. The query is designed to find students taught by Dominick Pope with a grade higher than 75%.

```
1 -- Find the students taught by Dominick Pope who have a grade higher than 75%
2 SELECT person.FirstName, person.LastName, course.Name, credit.Grade
3 FROM Person AS person
4 INNER JOIN Student AS student ON person.PersonId = student.PersonId
5 INNER JOIN Credit AS credit ON student.StudentId = credit.StudentId
6 INNER JOIN Course AS course ON credit.CourseId = course.CourseId
7 WHERE course.Teacher = 'Dominick Pope'
8 AND Grade > 75;
```

The results are displayed in a table with the following columns: FirstName, LastName, Name, and Grade.

FirstName	LastName	Name	Grade
Heaven	Stone	Introduction to Law	96.29
Bree	Tyson	Introduction to Law	91.82
Bianca	Calderon	Introduction to Law	97.73
Ronin	Mccoy	Introduction to Law	93.59
Talon	Guzman	Introduction to Law	86.55
Valentin	Espinoza	Introduction to Law	95.04
Lila	Landry	Introduction to Law	80.23
Delaney	Deleon	Introduction to Law	83.26
Perla	Combs	Introduction to Law	99.43

Query succeeded | 0s

Q1: Find the students taught by Dominick Pope and Salma Ortega who have a grade higher than 75%.

The screenshot shows the Azure Data Studio interface. On the left is a sidebar with navigation options like Overview, Activity log, Tags, and Query editor (preview). The main pane displays a SQL query titled 'Query 1' with the following code:

```

1 -- Find all the courses in which Noe Coleman has ever enrolled
2 SELECT course.Name, course.Teacher, credit.Grade
3 FROM Course AS course
4 INNER JOIN Credit AS credit ON credit.CourseId = course.CourseId
5 INNER JOIN Student AS student ON student.StudentId = credit.StudentId
6 INNER JOIN Person AS person ON person.PersonId = student.PersonId
7 WHERE person.FirstName = 'Noe'
8 AND person.LastName = 'Coleman';

```

Below the query editor, the 'Results' tab shows the output of the query:

Name	Teacher	Grade
Circuit Analysis	Gerardo Grimes	14.38
Circuit Analysis	Gerardo Grimes	35.32
Circuit Analysis	Gerardo Grimes	48.29
Elementary French	Salma Ortega	63.49

A status bar at the bottom indicates 'Query succeeded | 0s'.

Q2: Find all the courses in which Noe Coleman has ever enrolled.

The screenshot shows the Azure Data Studio interface. On the left is a sidebar with navigation options like Overview, Activity log, Tags, and Query editor (preview). The main pane displays a SQL query titled 'Query 1' with the following code:

```

1 -- Combined query with counts and list of teachers and students
2 SELECT
3     'Total Teachers' AS Type,
4     COUNT(DISTINCT Teacher) AS Count,
5     NULL AS FirstName,
6     NULL AS LastName
7 FROM Course
8 WHERE Name = 'Literature and Culture'
9
10 UNION ALL
11
12 SELECT
13     'Total Students' AS Type,
14     COUNT(DISTINCT cr.StudentId) AS Count,
15     NULL AS FirstName,
16     NULL AS LastName

```

Below the query editor, the 'Results' tab shows the output of the query:

Type	Count	FirstName	LastName
Total Teachers	3		
Total Students	103		
Teacher			Josie Hopkins
Teacher			Jaxon Moon
Teacher			Andre Richard
Student		Desmond	Valdez
Student		Valentino	Christensen
Student		Jeremiah	Stanley
Student		Rhys	Herman

A status bar at the bottom indicates 'Query succeeded | 0s'.

Q3: Find how many are teaching 'Literature and Culture', and how many students are there in that course, also list both.