Database Query Translation Assignment

Objective: Translate the provided queries from PowerPoint slides into SQL and explain each query in your own words.

Instructions:

1. **Database Setup:**
   - Create a new database named "UniversityDB" in Microsoft SQL Server.
2. **Table Creation:**
   - Create the tables based on the provided schema for `Student`, `Course`, and `StudentCourse`.
3. **Data Insertion:**
   - Insert at least 5 records into the `Student` table, 3 records into the `Course` table, and create relationships in the `StudentCourse` table to represent students taking various courses.
4. **Query Translation:**
   - Translate each query from the PowerPoint slides into SQL. Use the actual data you inserted in step 3 for testing.
5. **Explanation:**
   - For each translated query, provide a brief explanation in your own words. Explain what the query is trying to achieve and how it works.
6. **Testing:**
   - Execute each SQL query and verify the results. Ensure that the output aligns with the expected results.

Example Query:

PowerPoint Slide Query:

```sql
SELECT FirstName, LastName FROM Student WHERE Gender = 'M';
```

Explanation:

- This query retrieves the first and last names of male students from the `Student` table. It uses a SELECT statement to specify the columns to be retrieved and a WHERE clause to filter the results based on the gender being 'M' (male).

Note:

- Include the SQL scripts, explanations, and any screenshots of query results in your submission.
- Verify the correctness of your SQL syntax and the accuracy of the query results.