ADO - Console Application

Results:			
stud_id	stud_name	dept_id	
301	Dinesh Gaikwad	101	
302	Ravi Patil	102	
303	Sneha Kulkarni	103	
304	Priya Sharma	104	
305	Karan Thakur	105	
306	Meera Desai	101	
307	Ankit Sinha	102	
308	Simran Kapoor	103	
309	Nikhil Joshi	104	
310	Neha Pawar	105	
Do you want to continue? (yes/no) 6 [dineshgaikwad@Dineshs-MacBook-Air ServerConnection % dotnet run			
Enter the operation to be performed: 1. Create Student Table 2. Insert Student Record 3. Display Student Records 4. Create Course Table 5. Insert Course Record 6. Display Course Records 6			
course_id	course_name	dept_id	t_id
401	Data Structures	 101	 201
402	Operating Systems	101	206
403	Digital Circuits	102	202
404	Microprocessors	102	207
405	Thermodynamics	103	203
406	Fluid Mechanics	103	208
407	Structural Engineering	104	204
408	Surveying	104	209
409	Database Management	104 105	209 205
409 410	Database Management Cyber Security	104	
409	Database Management	104 105	205
409 410 411 412	Database Management Cyber Security Computer Networks Java Programming	104 105 105 101 101	205 210 201 206
409 410 411 412 413	Database Management Cyber Security Computer Networks Java Programming Analog Electronics	104 105 105 101	205 210 201 206 202
409 410 411 412 413 414	Database Management Cyber Security Computer Networks Java Programming Analog Electronics Control Systems	104 105 105 101 101 102 102	205 210 201 206 202 207
409 410 411 412 413 414 415	Database Management Cyber Security Computer Networks Java Programming Analog Electronics Control Systems Machine Design	104 105 105 101 101 102 102 103	205 210 201 206 202 207 203
409 410 411 412 413 414 415 416	Database Management Cyber Security Computer Networks Java Programming Analog Electronics Control Systems Machine Design Manufacturing Processes	104 105 105 101 101 102 102 103	205 210 201 206 202 207 203 208
409 410 411 412 413 414 415 416 417	Database Management Cyber Security Computer Networks Java Programming Analog Electronics Control Systems Machine Design Manufacturing Processes Concrete Technology	104 105 105 101 101 102 102 103 103	205 210 201 206 202 207 203 208 204
409 410 411 412 413 414 415 416 417 418	Database Management Cyber Security Computer Networks Java Programming Analog Electronics Control Systems Machine Design Manufacturing Processes Concrete Technology Environmental Engineerin	104 105 105 101 101 102 102 103 103	205 210 201 206 202 207 203 208 204 209
409 410 411 412 413 414 415 416 417 418 419	Database Management Cyber Security Computer Networks Java Programming Analog Electronics Control Systems Machine Design Manufacturing Processes Concrete Technology Environmental Engineerin Web Development	104 105 105 101 101 102 102 103 103 104 g104 105	205 210 201 206 202 207 203 208 204 209 210
409 410 411 412 413 414 415 416 417 418	Database Management Cyber Security Computer Networks Java Programming Analog Electronics Control Systems Machine Design Manufacturing Processes Concrete Technology Environmental Engineerin	104 105 105 101 101 102 102 103 103 104 g104	205 210 201 206 202 207 203 208 204 209

```
static void CreateCourse()
        string guery = @"
            IF NOT EXISTS (SELECT * FROM sysobjects WHERE
name='Course' AND xtype='U')
            CREATE TABLE Course (
                course id INT PRIMARY KEY,
                course_name NVARCHAR(100),
                dept id INT,
                t_id INT
            );";
        ExecuteNonQuery(query, "Course Table created (if not
exists).");
    }
    static void InsertCourse()
        Console.Write("Enter Course ID: ");
        int cid = Convert.ToInt32(Console.ReadLine());
        Console.Write("Enter Course Name: ");
        string cname = Console.ReadLine();
        Console.Write("Enter Department ID: ");
        int deptId = Convert.ToInt32(Console.ReadLine());
        Console.Write("Enter Teacher ID: ");
        int tid = Convert.ToInt32(Console.ReadLine());
        string guery = "INSERT INTO Course VALUES (@cid, @cname,
@deptId, @tid)";
        using (SqlConnection con = new
SqlConnection(connectionString))
            con.Open();
            using (SqlCommand cmd = new SqlCommand(query, con))
            {
                cmd.Parameters.AddWithValue("@cid", cid);
                cmd.Parameters.AddWithValue("@cname", cname);
                cmd.Parameters.AddWithValue("@deptId", deptId);
                cmd.Parameters.AddWithValue("@tid", tid);
                cmd.ExecuteNonQuery();
                Console.WriteLine("Course inserted
successfully.");
    }
```

```
static void DisplayCourse()
        string query = "SELECT * FROM Course";
        using (SqlConnection con = new
SqlConnection(connectionString))
            con.Open();
            using (SqlCommand cmd = new SqlCommand(query, con))
            using (SqlDataReader reader = cmd.ExecuteReader())
            {
                Console.WriteLine("\nCourse Records:");
Console.WriteLine("course id\tcourse name\tdept id\tt id");
Console.WriteLine("-----
-");
                while (reader.Read())
                    Console.WriteLine($"{reader["course_id"]}
\t{reader["course_name"]}\t{reader["dept_id"]}
\t{reader["t id"]}");
            }
        }
    }
```