Chapter 07

1 **Create Stored Procedure**

2 **Get Component using other Component**

```
CREATE PROCEDURE GetAll
AS
SELECT C.CourseId , C.CourseName, B.BookId, B.BookName
FROM Course AS C
INNER JOIN Book AS B ON B.CourseId = C.CourseId
```

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1	**Create Stored Procedure**
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In CourseRepository :

```
public async Task<List<Course>> GetAllCourse()
{
var p = new DynamicParameters();
var result = await DBContext.Connection.QueryAsync<Course,
Book, Course>("GetAll", (course, book) =>
{
course.Books = course.Books ?? new List<Book>();
course.Books.Add(book);
return course;
}
```
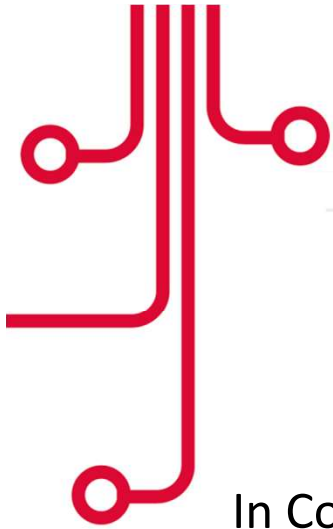
```
, splitOn: "BookId"
, param: null
, commandType: CommandType.StoredProcedure);
var finalResult = result.AsList<Course>().GroupBy(p =>
p.CourseId).Select(g =>
{
Course course = g.First();
```

```
course.Books = g.Where(g => g.Books.Any() && g.Books.Count >
0).Select(p => p.Books.Single()).GroupBy(book =>
book.BookId).Select(book => new Book
{
BookId = book.First().BookId,
BookName = book.First().BookName
}).ToList();
return course;
}
).ToList();
return finalResult;
}
```
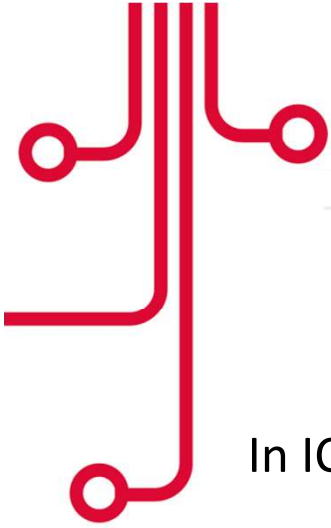
In CourseService:

```
public async Task<List<Course>> GetAllCourse()
{
return await CourseRepository.GetAllCourse();
}
```

In ICourseRepository:

Task<List<Course>> GetAllCourse();

In ICourseService:

Task<List<Course>> GetAllCourse();

In CourseController:

```
[HttpGet]
[Route("GetAllCourse")]
[ProducesResponseType(typeof(List<Course>),
StatusCodes.Status200OK)]
public async Task<List<Course>> GetAllCourse()
{
return await CourseService.GetAllCourse();
}
```

References

[1]. https://www.educative.io/blog/crud-operations

[2]. https://www.codecademy.com/articles/what-is-crud

[3]. https://www.restapitutorial.com/lessons/httpmethods.html

[4]. https://www.w3schools.com/sql/sql_stored_procedures.asp

[5]. https://www.pragimtech.com/blog/blazor/rest-api-repository-pattern/#:~:text=sql%20server%20database-,What%20is%20Repository%20Pattern,is%20in%20the%20respective%20repository

[6]. https://code-maze.com/filtering-aspnet-core-webapi/

[7]. https://www.infoworld.com/article/3562271/how-to-use-data-transfer-objects-in-aspnet-core-31.html