

T.C. ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK FAKÜLTESİ STAJ DEFTERÍ

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PRATİK ÇALIŞMANIN GÜNLERE DAĞILMA ÇİZELGESİ

Öğrencinin Çalıştığı Günler	Günlük Çalışma Saati	İşyeri Amirinin İmzası	Öğrencinin Çalıştığı Konular
01/03/2022	8	1 SE	Introduction and set-ups
02/03/2022	8	1 Jakan	Some BasicSql command and their usage
03/03/2022	8	Magney a.	Sql Functios . Procedures
04/03/2022	8	1	View Sctructure and Join
07/03/2022	8	11/25	Building nav-bar with html-css
08/03/2022	8	A STATE	Product repository for CRUD operations
09/03/2022	8	Poplie.	Completed the product repository
10/03/2022	8	0	Products controller with adding and getting endpoints.
11/03/2022	8	,	Adding the delete and update methods in
14/03/2022	8	1. /3	Controller
15/03/2022	8	1/36	Added photos to products with relationships
16/03/2022	8	" Jaggira.	Created a new shiny photo service! :D
17/03/2022	8	0	Attended event organized by the company
18/03/2022	8	1	Created method for adding photos to products
21/03/2022	8	1 30	Created more end-points for photos.
22/03/2022	8	Mary 1.	Created new from for adding products.
23/03/2022	8	Mr. O.	Created product details component.
24/03/2022	8	100	Created photo uploader
25/03/2022	8	- Elin	Making the HTML part of the photo uploader.
28/03/2022	8	July July	Adding product DTO and mapping the products to it

Today is my first day of the internship. I met my supervisers and checked around the different departments of the company, then we discussed the curriculum along with the topics that I'll be learning and decided to continue with Web Development and learning technologies used in it.

After being done with discussions and introductions I set the pc that I'll be using in the internsship and got all applications and add-ons like Vs Code, Postman, Angular extensions, etc.. installed to start working on the next day.

Sayfa No	Çalışmanın	KONTROL	
1	Konusu :Introduction and set-ups	Yapıldığı Tarih 01/03/2022	Kent KANDEMİI Bilgi İşlem

Today I started with SQL and checked on the basic commands like CREATE TABLE, CREATE DATABASE, SELECT FROM, etc... and had a general understanding of tables and how they work.

Some of the used codes:

```
SQLQuery2.sql - D...P-4CT46UT\GG (54))* 4 ×
    - CREATE DATABASE FreeWorkspace
    - CREATE TABLE Employee (
          ID INT,
           FirstName varchar(20),
           LastName varchar(15),
           Department varchar(20),
           Role varchar(25),
           Primary Key (ID)
      INSERT INTO Employee VALUES (1, 'Eddy', 'Martin', 'Computer Science', 'IT Manager')
INSERT INTO Employee VALUES (2, 'Tom', 'Webb', 'Computer Science', 'Software Developer')
     SELECT * FROM Employee
121 % - -
 Ⅲ Results 🕅 Messages
      ID FirstName LastName Department
                   Martin Computer Science IT Manager
    1 Eddy
                             Computer Science Software Developer
                   Webb
```

Sayfa No	Çalışman	in	KONTROL
2	Konusu : Some basic SQL commands and their usage.	Yapıldığı Tarih 02/03/2022	Kaan KANDEMIP Bilgi İşlem

Today I looked Procedure and Function structures in SQL and made some practice

Examples on them.

Some of the used codes:

Functions:

```
SQLQuery1.sql - DES...rullah Aktürk (56))* + X
   = create function buyukharf (@gelendeger varchar(18))
    returns varchar(10)
    85
    begin
    return upper(@gelendeger)
    end
    select dbo.buyukharf(KitapIsmi) from [calisma] [dbo] [kitap isimleri]
    use calisma
    - create function yazarsayi (Agelendeger as varchar(50))
     returns int
    85
     begin
    declare @sayi int
     select @sayi- count(yazar ismi) from [calisma] [dbo] [yazar isimleri] where @gelendeger - yazar ismi
     return @sayi
     end
    SELECT FROM yazar isimleri
    | select calisma.dbo.yazarsayi('Irfan Anil Kaçaranoğlu')
```

Procedures:

```
SQLQuery3.sql - DES. nullah Akturk (57))* + × SQLQuery2.sql - DES. nullah Akturk (52))* SQLQuery1.sql - DES. nullah Akturk (56))*

AS - SELECT KITAP AD , KITAP RENK FROM KITAP K1 TIMER TOTH KITAP K2

ON KITAP K1 KITAP AD - KITAP K2 KITAP ADI
```

Sayfa No	Çalışmar	KONTROL	
3	Konusu :SQL Functuions, Procedures	Yapıldığı Tarih 03/03/2022	Bilgi İşlem

Today I learned the View structure and Join types (Inner, Outer, Full, etc..) and made some practice

examples.

Some of the used codes:

```
View:
```

```
SQLQueryl.sql - DES...rullah Akturk (52))* 
| Select " |
| from [Northwind] [dbo] [Urunler] |
| INNER JOIN [Northwind] [dbo] [Kategoriler] |
| ON Urunler Kategorilo - Kategoriler Kategorilo |
| Fiselect " |
| from [Northwind] [dbo] [Urunler] |
| order by UrunAdi |
| CREATE VIEW URUNKATEGORI2 as |
| select Urunler UrunAdi Urunler UrunID. Kategoriler Kategorilo |
| Kategorilo | Kategorilo |
| INNER JOIN [Northwind] [dbo] [Urunler] |
| ON Urunler Kategorilo - Kategoriler Kategorilo |
| select " from URUNKATEGORI2
```

Joins:

```
SQLQuery2.si
SQLQuery4.sql - DES...rullah Aktūrk (62))* → × SQLQuery3.sql - DES...rullah Aktūrk (57))*
    -- INNER JOIN
   - SELECT column name(s)
    FROM table1
     INNER JOIN table2
    ON table1.column name = table2.column name;
     -- FULL OUTER JOIN
   ESELECT column name(s)
     FROM table1
     FULL OUTER JOIN table2
    ON table1 column name = table2 column name
     WHERE condition;
    -- LEFT JOIN
  SELECT column name(s)
     FROM table1
     LEFT JOIN table2
    ON table1 column name = table2 column name;
     -- RIGHT JOIN
   FISELECT column name (s)
    FROM table1
    RIGHT DOIN table2
    ON table1 column name = table2 column name;
```

Sayfa No	Çalışmanın	KONTROL	
4	Konusu :View structure and Joins in SQL.	Yapıldığı Tarih 04/03/2022	Bilgi İşlem

Today after finishing the SQL basics I consulted my advisors about what to do next, they told me that I should start developing some application or real world project so I asked them if I could continue working on a project that I had started developing on my won and they agreed. The topic of the project is an e-commerce website for selling goods which is developed with C# Asp.net core for back-end, SQL lite with entity framework for database and, Angular framework for front-end. I started by setting up the project on the pc that I am using in the company, then created the nav-bar component hat will contain the navigation links of the website.

Some of the used codes:

The output:

Sayfa No	Çalışma	anın	KONTROL
5	Konusu : Building nav bar with HTML and CSS	Yapıldığı Tarih 07/03/2022	Mean KANDEMIR Bigi İşlem

Today I started working on the back-end I added a new model for products, then created a Repository for dealing with adding deleting, and getting products from the database, For now the Repo has only methods for getting products, But I will add more methods tommorow.

The Get methods:

```
private readonly IMapper mapper;
public ProductRepository(DataContext context, IMapper mapper)

{
    mapper = mapper;
    _context = context;
}

public async TaskeProduct> GetProductByIdAsync(int id)
{
    return analt _context.Products
    _Include(p => p.Photos)
    .FirstOrDefaultAsync(product => product.Id == id);
}

public async TaskeItnumerablesProduct>> GetProductsAsync(string category, int price, int inStock, int soldItems)
{
    var result = analt _context.Products
    .Include(p => p.Photos)
    .ToListAsync();

    if (!string.IshullOrlapty(category))
        result = result.Where(p => p.Category == category).ToList();

    if (price != -1)
        result = result.Where(p => p.InStock == inStock).ToList();

    if (inStock != -1)
        result = result.Where(p => p.SoldItems == soldItems).ToList();

    return result;
}
```

Sayfa No	Çalışmanır	KONTROL	
6	Konusu: Product repository for CRUD operations.	Yapıldığı Tarih 08/03/2022	Bilgi İşlem

Today I continued working on the product repository from where I stopped yesterday and added the rest of the CRUD methods with some helper methods for persisting the changes on the database and checking whether a name of product exists to prevent having duplicate names for different products.

The added methods:

```
public async Task<bool> AddProductAsync(Product product)
    _context.Products.Add(product);
       return await SaveAllAsync();
public bool DeleteProduct(int id)
    var product = _context.Products.Find(id);
    if (product != null)
       _context.Products.Remove(product);
        _context.SaveChanges();
        return true;
    return false;
public void Update(Product product)
    _context.Entry(product).State = EntityState.Modified;
public async Task<bool> SaveAllAsync()
    return await _context.SaveChangesAsync() > 0;
public async Task<Product> CheckProductExistsByName(string name)
    return await _context.Products
    .FirstOrDefaultAsync(product => product.Name == name);
```

Sayfa No	Çalışma	KONTROL	
7	Konusu: Completed the product repository.	Yapıldığı Tarih 09/03/2022	Bilgi İşlem

Today I created a controller that contains two methods for getting products, and another method for adding new products and tested them using Postman.

The Get methods:

Adding product method:

```
[Hitphost("add-penduct")]
public async TaskcActionResultsProduct>> AddProduct(Product product)
{
    var newProduct = _mapper.MapsProduct>(product);
    newProduct.Nume = newProduct.Nume.Tolower();

    if (aux)l = productRepository.CheckProductExistsByName(newProduct.Nume) != null) return NadRequest("Name already exists for another product.");

    newProduct.Category = newProduct.Category.Tolower();

    if(aux)l = productRepository.AddProductAsync(newProduct))
        return Ok(newProduct);

    return NadRequest("Failed to add product");
}
```

Sayfa No	Çalışmanı	KONTROL	
8	Konusu: Products controller with adding and getting endpoints.	Yapıldığı Tarih 10/03/2022	aan KANDEMIR Bilgi İşlem

Today I continued working on the products controller and added the two remaining two CRUD funtionalities which are delete and update.

Delete and update methodsin the controller:

```
[HttpDelete("id)")]

public ActionResult DeleteProduct(int id)

{

    var result = _productRepository.DeleteProduct(id);

    if (result)
        return Ok("Deleted successfully.");

    return BadRequest("Failed to remove product..");

}

[HttpPut]

public async Task<ActionResult> UpdateProduct(ProductUpdateDto productUpdateDto)

{

    productUpdateDto.Name = productUpdateDto.Name.ToLower();

    productUpdateDto.Category = productUpdateDto.Category.ToLower();

    var product = await _productRepository.GetProductByIdAsync(productUpdateDto.Id);

    _mapper.Map(productUpdateDto, product);

    _productRepository.Update(product);

    if (await _productRepository.SaveAllAsync()) return NoContent();

    return BadRequest("Failed to update product..");

}
```

Sayfa No	Çalışmar	KONTROL	
9	Konusu: Adding the delete and update methods in controller.	Yapıldığı Tarih 11/03/2022	Kaan KANDEMIR Bilgi İşlem

Today I wanted to add a collection of photos to my products but I didn't know how so I spent most of my time watching videos and reading articles about Entity Framework relationships and how they work and coded properly, and of course with some help from my advisors I managed to get a basic understanding of how these relationships work. Afterwards I applied what I learned on the new Photo model and Product model and estableshed the relationship between them as one to many because one product can have multiple photos while each photo can have only one product. And apparently all I had to do was to add a collection of photos to the Product model and a single product to the Photo model and Entity Framework core would handle the rest. The models and changes they got

Sayfa No	Çalışman	KONTROL	
10	Konusu: Added photos to products with relationships.	Yapıldığı Tarih 14/03/2022	Kann KANDEMİ Sigi İşlem

Today I added a new service for uploading the photos into some cloud to store it there instead of storing them locally on my machine. The cloud that I chose was Cloudinary and luckily it offers couple of GBs of storage for free before having to buy a premium account. Even though it is quite straight forward it was hard to configure it so it did take me a while, but I managed to make it at the end.

The photo service:

```
namespace API.Services
       public PhotoService(IOptions<CloudinarySettings> config)
           var acc = new Account
               config.Value.CloudName,
              config.Value.ApiKey,
               config.Value.ApiSecret
            _cloudinary = new Cloudinary(acc);
       public async Task<ImageUploadResult> AddPhotoAsync(IFormFile file)
           var uploadResult = new ImageUploadResult();
               using var stream = file.OpenReadStream();
               var uploadParams = new ImageUploadParams()
                   Transformation = new Transformation().Height(350).Width(300)
               uploadResult = await _cloudinary.UploadAsync(uploadParams);
            return uploadResult;
       public async Task<DeletionResult> DeletePhotoAsync(string publicId)
            var deleteParams = new DeletionParams(publicId);
```

Sayfa No	Çalışma	nnin	Λ	KONTROL
11	Konusu: Created a new shiny photo service! :D	Yapıldığı Tarih 15/03/2022		daan KANDEMIR Bilgi İşlem

Away from coding and setting in front of the pc I spent this day in an event that the company Adana chamber of industry (Adana sanayi odasi) where I am working has organized.

The event was "Yeşil Zirve" congress and it took place at the Sheraton Hotel and I participated with the IT team who are my advisors.

Veşil Zirve Toplanbis 15 Mart 2022 Sali 09:00 - 15 Mart 2022 Sali 18:00

×

Yeşil Zirve Toplantısı

Arrupa Biragi nin, utum degaptigi çerçevesinde oraya kayduğu Yeşi Mutabakat atratejuinen, şanayıcılerimiz tarafından en doğru jekilde antiqulması ve olasi tendelerin bersaraf edilerek, sanayonizin pelişimi için bir Arasta danuştirebümesi peretiğini düşüniyonuz. Ülkemiz, güçtü sanayası Alf pezanina yalamdış virkek üretim kaltesi ve makka üşükcüvle, üretim yapsında ve taptıması yaşamdış önemli değapimlere sategi atması bektimen Yeşil Mutabakata nust bir şekilde üyüm sağlayabilerek ülkelerin başında gelinlerin daşında çekilerek ülkelerin başında gelinlerinin başında gelinlerinin başında sategi atması bektimen Yeşil Mutabakata nust bir şekilde üyüm sağlayabilerek ülkelerin başında gelinlerinin başında sategi atması bektimen Yeşil Mutabakata nust bir şekilde üyüm sağlayabilerek ülkelerin başında gelinlerinin başında sategilik bir sategilik bir sategilik bir sategilik bir sategilik bir sategilik bir sategilik bir sategilik bir sategilik bir sategilik bir şekilde üyüm sağlayabilik sategilik bir sategilik bir sategilik

Yeşil Mutabalat ile ilpil olarak sanayıcıleriminin karşı karşıya kaldığı hak ve Arastların penu kaşasımlı olarak değerlendirlereği. T.C. ilism Değaldığı Baş Müzakereçisi ve T.C. Çevre, Şeharala ve İstim Değaldığı Batanlığı Batan Yorduncu Sir. Prof.Dr. Mehmet Emin BiRPINAR'ın Ana Kanupman olduğu ve Odamu ile Alman Ulustararası işlardığı Kurumu (GIZ) işlariğinde düzenlereçek olar Veşil Zavve başlıkı erkiniğinin, 15 Mert 2022 tarahınde Adena Sheratan Osell'inde gerçekişişinileretisi.

Türk samayısının **yeşti dönüşümü** ve sonrasında günceme geleçülecek olası değişimleri tartışmayı omaçlasığımız **Yeşti Zirve** enkinüğümüzde sizi de aramısıda görmek en böyük düleğimüzdir.

M KADAT

Konusu: Attended event Yapıldığı Tarih	Sayfa No	Çalışman	Çalışmanın		
	12			Kaar KANDEM Bilgi İşlem	Mark Co.

Today I created one more end-point to the products controller for dealing with photo adding, then I spent the rest of the time toubleshooting and correcting errors that I had in the controller and the photo service that I created before using Postman.

The add photo end-point:

```
[HttpPost("add-photo")]

public async TaskcActionResultcPhotoDto>> AddPhoto([FormFile file, int id))

{

    var product = await _productRepository.GetProductByIdAsync(id);

    var result = await _photoService.AddPhotoAsync(file);

    if (result.Error != null) return BadRequest(result.Error.Message);

    var photo = new Photo
    {

         Url = result.SecureUrl.AbsoluteUri,
         PublicId = result.PublicId
    };

    if (product.Photos.Count == 8)
    {
         photo.IsMain = true;
    }

    product.Photos.Add(photo);

    if (await _productRepository.SaveAllAsync()) return CreatedAtRoute("GetProduct", new {id = product.Id}, _mapper.MapsPhotoDto>(photo));

    return BadRequest("Failed to add the photo.");
}
```

Sayfa No	Çalışmanır		1	KONTROL
13	Konusu: Created method for adding photos to products.	Yapıldığı Tarih 17/03/2022	Waa	n ANDEMIR Bilgi İşlem

Today I completed the products controller by adding two more end-points for deleting and setting a photo as main photo for displaying in the front-end.

The end-points methods:

```
[HttpDelete("delete-photo")]
public async Task<ActionResult<Product>> DeletePhoto(int ProductId, int PhotoId)
    var product = await _productRepository.GetProductByIdAsync(ProductId);
    var photo = product.Photos.FirstOrDefault(Photo => Photo.Id == PhotoId);
    if (photo == null) return NotFound();
    if (photo.IsMain) return BadRequest("You cannot delete the main photo");
    if (photo.PublicId != null) {
        var result = await _photoService.DeletePhotoAsync(photo.PublicId);
        if(result.Error != null) return BadRequest(result.Error.Message);
    product.Photos.Remove(photo);
    if (await _productRepository.SaveAllAsync()) return Ok();
    return BadRequest("Failed to delete the photo..");
[HttpPut("set-main-photo")]
public async Task<ActionResult> SetMainPhoto(int ProductId, int PhotoId)
   var product = await _productRepository.GetProductByIdAsync(ProductId);
   var photo = product.Photos.FirstOrDefault(photo => photo.Id == PhotoId);
   if (photo.IsMain) return BadRequest("This is already the main photo");
   var currentMain = product.Photos.FirstOrDefault(photo => photo.IsMain);
   if (currentMain != null) currentMain.IsMain = false;
   photo.IsMain = true;
   if (await _productRepository.SaveAllAsync()) return NoContent();
   return BadRequest("Failed to set main photo..");
```

Sayfa No	Çalışma	anın	KONTROL
14	Konusu: Created more end-points for photos.	Yapıldığı Tarih 18/03/2022	Bilgi İşlem

Today I started working on the front-end part of my website and created a component for adding new products then I connected it with the back-end API using http requests. The component applies angular reactive forms and uses the FormBuilder in order to make the form group and form controls within it. Of coure I added some validation to the inputs to make sure nothing goes wrong.

The component code:

```
addProductForm: FormGroup;

constructor(private adminService: AdminService, private fb: FormBuilder) { }

ngOnInit(): void {
   this.initializeForm();
}

initializeForm() {
   this.addProductForm = this.fb.group({
      category: ['',Validators.required],
      price: ['',Validators.required],
      inStock: ['',Validators.required],
      soldItems: ['',Validators.required]
   })
}

addProduct() {
   this.adminService.addProduct(this.addProductForm.value).subscribe(response =>{
      console.log(response);
   }, error => {
      console.log(error);
   })
}
```

The output:



Sayfa No	Çalışmar	ıın	1	KONTROL
15	Konusu: Created new from for adding products.	Yapıldığı Tarih 21/03/2022		Bilgi İşlem

Today I created another component for showing details about the product then added two buttons in it, one for deleting the product and the other one for editing it. then made one more component for editing the component and adding more photos on it.

The component:

```
ngOnInit(): void {
   this.loadProduct();
   this.galleryOptions = [
       width: '500px',
      height: '500px',
      imagePercent: 100,
      thumbnailsColumns: 4,
      imageAnimation: NgxGalleryAnimation.Slide,
getImages(): NgxGalleryImage[] {
  const imageUrls = [];
  for (const photo of this.product.photos) {
    imageUrls.push({
      small: photo?.url,
      medium: photo?.url,
     big: photo?.url
loadProduct() {
  this.productService.getProductById(+this.route.snapshot.paramMap.get('id')).subscribe(product => {
    this.product = product;
   localStorage.setItem("product", JSON.stringify(product));
   this.galleryImages = this.getImages();
  }, error => {console.log(error); })
deleteProduct() {
 return this.productService.deleteProduct(this.product.id).subscribe(response => {
   console.log(response);
  }, error => {console.log(error);} );
```

I also created a porducts service that is responsible of sending http requests to the back-end.

Sayfa No	Çalışma	nin	KONTROL
16	Konusu: Created product details component.	Yapıldığı Tarih 22/03/2022	Kaan KANDEMIR Bigi İşlem

Today I added the functionality of adding photos to products in the front-end by creating a new component then I used the Ng2FileUploader that angular provides. Even though we can use it out of the box it was really difficult to configure it and it took me very long.

The FileUploader component:

```
export class PhotoEditorComponent implements Onlnit {
 @Input() product: Product;
 params = new HttpParams();
 hasBaseDropzoneOver = false;
 ngOnInit(): void (
   this.initializeUploader();
 setParams() {
  this.params = this.params.set("productid", this.product.id)
   this.params = this.params.set("photoId", this.photo.id);
 deletePhoto(photo:Photo) (
  Lhis.photo - photo;
   this:setParams();
  this.productService.deletePhoto(this.params).subscribe(() => {
    this, product.photos.slice[photo.id];
 setMainPhoto(photo:Photo) {
  this.setParams():
  this.productService.updateMainPhoto(this.params).subscribe(response -> {
  this.hasBaseDropzoneOver = e;
initializeUploader() {
   url: this.baseUrl + "products/add-photo?id=" + this.product.id,
// authToken: 'Bearer' + this.user.token, // after adding users
   removeAfterUpload: true,
   autoUpload: false.
    maxFileSize: 10 * 1024 * 1024,
  this.uploader.onAfterAddingFile = (file) => [
      this.product.photos.push(photo);
```

Sayfa No	Çalışmanın		KONTROL
17	Konusu: Created photo uploader.	Yapıldığı Tarih 23/03/2022	Kaan KANDEMI Filgi İşlem

Today I completed my photo uploader by adding the HTML codes needed and passing all the values between the html index and it's Typescript component properly.

The HTML index:

```
chizkhload queue(/hi)
Queue length; {{ uploader?.queue?.length }}
                      cth width="SeXT:Mamec/th>
cth width="SeXT:Mamec/th>
                      Cromps
(closty)
(closty)
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                     <div class="col-md-3">
                         <h3 class="text-center mt-3">Add files</h3>
                       <div ng2FileDrop
                                                         [ngClass]="{'nv-file-over': hasBaseDropzoneOver}"
                                                        (fileOver)="fileOverBase($event)"
                                                      [uploader]="uploader"
                                                    Drop photos here
                    <label for="file-uploader" class="input-label">
                                             Upload files
                     <input id="file-uploader" type="file" ng2FileSelect [uploader]="uploader" multiple><br/><br/>
```

Sayfa No	Çalışmanın		KONTROL		
18	Konusu: Making the HTML part of the photo uploader.	Yapıldığı Tarih 24/03/2022	Raap KANDEMIF Bilgi İşlem		

Today I added the functionality of adding photos to products in the front-end by creating a new component then I used the Ng2FileUploader that angular provides. Even though we can use it out of the box it was really difficult to configure it and it took me very long.

The FileUploader component:

```
xport class PhotoEditoeComponent implements OnTait [
uploader: FileOploader;
hasBaseDropzoneOver = talse;
  this.params = this.params.set("productId", this.product.id)
this.params = this.params.set("photoid", this.photo.id);
   this.productService.updateMainPhoto(this.params).subscribe(response => {
     url: this.baseUrl + "products/add-photo?id=" + this.product.id,
     maxFileSize: 10 * 1024 * 1024,
```

Sayfa No	Çalışmanın	KONTROL
19	DTO and mapping the Products to it	Bilgi İşlen

Finally after I added the new DTO I had to make new methods in the repository that send products DTOs instead of the products themselves and then made some neccessary modifications on the products controller.

The two new methods:

Sayfa No	Çalışma	nin	1	KONTROL
20	Konusu: Applying the DTO structure in the API.	Yapıldığı Tarih 28/03/2022		Kaan KANDEMIR Big İşlem