

# Training Day 7 Daily Dairy

## june-14

Tasks Completed:

### Starting the Django Shell:

- **Opening the Shell:**

- Learned how to start the Django shell, which provides a Python interactive environment with Django context loaded.

Command to start the shell:

bash

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```
python manage.py shell
```

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### Importing Models in the Shell:

- **Accessing the Models:**

- Imported necessary models into the shell to perform database operations.

Example of importing models:

python

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```
from myapp.models import Product, Category
```

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### Creating and Saving Data:

- **Inserting Data into the Database:**

- Practiced creating new instances of models and saving them to the database using the `save()` method.
- Created a `Category` and `Product` and associated them.

Example:

python

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```
# Creating and saving a category
category = Category(name='Electronics')
category.save()

# Creating and saving a product linked to the
category
product = Product(name='Laptop', price=1200.00,
description='Gaming laptop', category=category)
product.save()
```

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- **Using the `create()` Method:**

- Used Django's `create()` method, which combines model creation and saving in one step.

Example:

python

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```
Category.objects.create(name='Books')
Product.objects.create(name='Smartphone',
price=699.99, description='Android phone',
category=category)
```

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## Retrieving Data from the Database:

- **Querying All Records:**

- Used the `all()` method to retrieve all records of a model.

Example:

python

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```
products = Product.objects.all()
```

```
for product in products:  
    print(product.name, product.price)
```

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- **Filtering Data:**

- Used the `filter()` method to query records based on certain conditions.

Example:

python

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```
electronics_products =  
Product.objects.filter(category__name='Electronics')  
for product in electronics_products:  
  
    print(product.name)
```