## **Django-MVT Session Topics**



1	Request-Response Cycle	Discuss Django's Request/Response Cycle
2	Filtering	Difference between get_object_or_404() , get(),filter() in django
3	Primary Key	Does Django support multiple-column primary keys?
4		How can you see raw SQL queries running in Django?
5	QuerySet	What is a QuerySet in the context of Django?
6	Mixin	What is mixin?

7	Field Class	What is Django Field Class?
8	Combine QuerySets	How to combine multiple QuerySets in a View?
9	Q objects	Explain Q objects in Django ORM.
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10	select_related and	Difference between select_related and prefetch_related?
	prefetch_related	
from django.db import models		
<pre>class Author(models.Model):</pre>		
<pre>name = models.CharField(max_length=100)</pre>		

```
from django.db import models

class Author(models.Model):
    name = models.CharField(max_length=100)

class Book(models.Model):
    title = models.CharField(max_length=200)
    publication_date = models.DateField()
    author = models.ForeignKey(Author, on_delete=models.CASCADE)
    price = models.DecimalField(max_digits=10, decimal_places=2)
```

11	Scenario Based Q.	Write a query to retrieve all books published in the year 2023

12	Scenario Based Q.	Write a query to retrieve all authors who have published at least one book in 2023.
		reast one book in 2020.

13	Optimize the query from Task 2 to use Django's select_related or prefetch_related to minimize the number of database
	queries.

average_price as keys.	14		Write a query to retrieve the total number of books and the average price of books for each author. The result should be a list of dictionaries with author_name, total_books, and average_price as keys.
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