

Trainee Assessment Tools: Web Application Development with Python (Level-4)

Total points 5/20 ?

Email *

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✗ You want to retrieve all books that have either been published by "Publisher A" or "Publisher B". Which query would you use? *0/1

- ☐ `Book.objects.filter(publisher="Publisher A" | "Publisher B")`
- ☐ `Book.objects.filter(publisher="Publisher A").filter(publisher="Publisher B")`
- ☐ `Book.objects.filter(Q(publisher="Publisher A") | Q(publisher="Publisher B"))`
- ☒ `Book.objects.filter(publisher="Publisher A" || publisher="Publisher B")` ✗

Correct answer

- ☒ `Book.objects.filter(Q(publisher="Publisher A") | Q(publisher="Publisher B"))`



✓ In Django, what is the purpose of the middleware in the settings.py file? * 1/1

- ☐ Define middleware functions for the project
- ☒ Enable or disable specific middleware components ✓
- ☐ Specify URL patterns for middleware
- ☐ Configure global middleware settings

✗ How do you define a primary key field in Django models? * 0/1

- ☒ Using PrimaryKeyField. ✗
- ☐ Using AutoField.
- ☐ Using IntegerField with primary_key=True
- ☐ Using CharField with primary_key=True.

Correct answer

- ☒ Using AutoField.



✗ **How can you secure sensitive information like API keys in settings.py? *** 0/1

- ☐ Use the SECURE_SETTINGS setting
- ☒ Encrypt the settings.py file
- ☐ Use environment variables
- ☐ Create a separate secrets.py file

✗

Correct answer

- ☒ Use environment variables

✗ **How would you retrieve objects from the database that match any value from a list using Django queryset? *** 0/1

- ☐ `Model.objects.filter(field__in=[value1, value2])`
- ☒ `Model.objects.filter(field__contains=[value1, value2])`
- ☐ `Model.objects.filter(field__icontains=[value1, value2])`
- ☐ `Model.objects.filter(field__exact=[value1, value2])`

✗

Correct answer

- ☒ `Model.objects.filter(field__in=[value1, value2])`



✗ How do you represent an integer field that increments automatically with each new object created? *0/1

- ☐ IntegerField with auto_increment=True
- ☐ AutoField
- ☐ IntegerField with auto_increment
- ☒ PrimaryKeyField

✗

Correct answer

- ☒ AutoField

✓ In Django, what does the reverse() function do? *

1/1

- ☐ Reverse the order of items in a queryset
- ☒ Generate a URL for a given view name
- ☐ Reverse the order of characters in a string
- ☐ Reverse the order of elements in a list

✓



✗ How would you perform a case-sensitive exact search in Django queryset?

*0/1

- ☐ queryset.filter(field__iexact='value')
- ☐ queryset.filter(field__contains='value')
- ☐ queryset.filter(field__exact='value')
- ☒ queryset.filter(field__icontains='value')

✗

Correct answer

- ☒ queryset.filter(field__exact='value')

✗ What does the exists() method do in Django? *

0/1

- ☐ Checks if a specific field exists in a model.
- ☒ Checks if a specific object exists in a queryset.
- ☐ Checks if a queryset exists in the database.
- ☐ Checks if a queryset is empty.

✗

Correct answer

- ☒ Checks if a queryset is empty.



✗ You want to retrieve all books that are authored by "John Doe" and published after the year 2015. Which query would you use? *0/1

- ☐ Book.objects.filter(author="John Doe").filter(published_year__gt=2015)
- ☒ Book.objects.filter(author="John Doe" && published_year__gt=2015) ✗
- ☐ Book.objects.filter(author="John Doe" & published_year__gt=2015)
- ☐ Book.objects.filter(Q(author="John Doe") & Q(published_year__gt=2015))

Correct answer

- ☒ Book.objects.filter(Q(author="John Doe") & Q(published_year__gt=2015))

Name *

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✓ Which method would you use to retrieve the last ten objects from a queryset in Django? *1/1

- ☐ last(10)
- ☐ tail(10)
- ☐ reverse()[:10]
- ☒ order_by('-id')[:10] ✓



✗ How would you retrieve objects from the database that were created after *0/1 a specific date using Django queryset?

- ☐ Model.objects.filter(created_at_ _gte=date)
- ☐ Model.objects.filter(created_at_ _gt=date)
- ☐ Model.objects.get(created_at_ _gte=date)
- ☒ Model.objects.get(created_at_ _gt=date)

✗

Correct answer

- ☒ Model.objects.filter(created_at_ _gte=date)

✗ Which of the following is not a valid field option in Django models? * 0/1

- ☐ choices
- ☐ required
- ☒ primary_key
- ☐ default

✗

Correct answer

- ☒ required



✓ Which method would you use to retrieve a random object from a Django model queryset? *1/1

- ☐ random_object()
- ☒ order_by('?').first()
- ☐ get_random()
- ☐ random()



✗ Which attribute in a Django model is used to define the default ordering for queries? *0/1

- ☒ order_by
- ☐ default_order
- ☐ ordering
- ☐ default_sort



Correct answer

- ☒ ordering



✗ How would you perform a case-insensitive exact match in Django queryset?

*0/1

- ☐ queryset.filter(field__iexact='value')
- ☒ queryset.filter(field__exact='value')
- ☐ queryset.filter(field__contains='value')
- ☐ queryset.filter(field__icontains='value')

✗

Correct answer

- ☒ queryset.filter(field__iexact='value')

✗ In Django ORM, what does the filter() method do? *

0/1

- ☐ Retrieves a single object by its primary key
- ☐ Adds a WHERE clause to the SQL query
- ☒ Orders the queryset by a specified field
- ☐ Counts the number of objects in a queryset

✗

Correct answer

- ☒ Adds a WHERE clause to the SQL query



✗ **What is the purpose of the `related_name` attribute in a Django model's `ForeignKey` field?** *0/1

- ☐ Determine the default sorting for the `ForeignKey` field
- ☒ Set the order of related objects
- ☐ Define a reverse relationship from the related model
- ☐ Specify the name of the related model

✗

Correct answer

- ☒ Define a reverse relationship from the related model

✓ **You want to retrieve the sum of all ratings for books in the database. Which method would you use?** *1/1

- ☐ `Book.objects.sum('rating')`
- ☒ `Book.objects.aggregate(Sum('rating'))`
- ☐ `Book.objects.rating__sum()`
- ☐ `Book.objects.aggregate(Total('rating'))`

✓



✗ **What is the purpose of the verbose_name attribute in a Django model's field?** *0/1

- ☐ Defines the ordering of the field
- ☐ Provides a human-readable name for the field in forms and admin interfaces
- ☒ Sets the default value for the field ✗
- ☐ Specifies the data type of the field

Correct answer

- ☒ Provides a human-readable name for the field in forms and admin interfaces

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