Topic: Custom Management Command 9: Importing Large Data Using Celery & Redis Debugging

Speaker: Udemy Instructor Rathan Kumar | Notebook: Django: Automating Common Tasks



1. After we installed, set up, and tested our Celery and Redis, it is time to use this on our IMPORTDATA function.

2. Our PROBLEM is that when we import large data like ONE MILLION records of employees, it may take some time (after testing it, it took at least 13 minutes long to save only 130K records, so it might take longer to save all the 1M records.). Our SOLUTION is to use the CELERY function to handle this time-consuming process while we see messages like 'Your data have been saved successfully' and you can do other things.

3. We create a new CELERY function in our DATAENTRY\TASKS.PY and update as:



4. In DATAENTRY/VIEWS.PY, we have to update our IMPORT_DATA function, so that the importing part is handled by CELERY instead of by DJANGO.

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TO:

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IMPORTANT REMINDER: IF YOU JUST RUN YOUR DJANGO SERVER RIGHT AWAY, YOU WONT SEE ANY UPDATE. THIS IS BECAUSE YOU NEED TO RUN YOUR CELERY COMMAND AGAIN:

\$ celery -A autocommontasks_main worker --loglevel=info --pool=solo

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4. When you reload your ADMIN dashboard, you should be able to see the added records from CUSTOMER and STUDENT CSV files.

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Uploads

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() http://127.0.0.1:8000/admin/dataentry/student/

Start typing to filter	
AUTHENTICATION AND AUTH	HORIZATION
Groups	+ Add
Users	+ Add
DATAENTRY	
Customers	+ Add
Employees	+ Add
Students	+ Add

+ Add

- C	
	Scarlett Smith
	Alexander Johnson
	Ella Wilson
	Elijah Davis
	Sophia Hernandez
	Henry Martinez
	Lily Perez
	Christopher King
	Grace Turner
	Joseph Adams
	Harper Harris
	Daniel Green
	Amelia Scott
	Samuel Young
	Charlotte White
	Benjamin Allen
	Mia Martinez
	William Hall
	Ava Rodriguez
	Alexander Clark
	Isabella Garcia
	Ethan Martinez
	Sophia Taylor
	James Anderson
	Olivia Jones
	David Miller
	Jessica Lee
	Daniel Wilson
	Sarah Davis
	Michael Brown
	Emily Johnson
	John Smith
100	students

If we need to add a SUCCESS message in our CELERY FUNCTION for an upload of STUDENT CSV file again, we update and run our celery reload command again.



Reloading our ADMIN Dashboard for STUDENT TABLE, IT SHOULD INCREASE IN NUMBER

	Jo	hn Smith	
1	2	150 students	Show all

5. When we try to import a CSV file to an incorrect model, Celery will throw an error but Django won't.

http://127.0.0.1:8000/import-data/	
	Import Data From CSV File to Database Tables

Choose File student_data.csv	
Select Database Table	

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To correct this, we have to an error - handling command ${\sf BEFORE}$ THE CELERY FUNCTION is being called.

So, go to DATAENTRY\UTILS.PY and move some blocks from MANAGEMENT\COMMANDS\IMPORTDATA.PY. So, our IMPORTDATA.PY updated code now:

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Our UTILS.PY updated code where we created a new function, check_csv_error, to allow Error Handling via UTILS.PY instead from IMPORTDATA.PY

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	🔹 views.py 🛛 M								
	> env		# redus enclos	ictPoodon(file	ing - che - nei				
	 media (uploads customer demo records 		reader = csv.L		:)				
	customer demo records								
	customer demo records		csv_header = r	reader.fieldnam	ies				
	customer_demo_records_r								
	customer_demo_records.c		if csv_header	<pre>!= model_field</pre>	ls:				
	employee_1M.csv		raise Data	Error(
	student_data_4XXZxb2.csv		f'CSV	file does not	match wit	h the {mode	el name} tab	le fields')	
	student_data_hVcSUg4.csv	56	except Exception as e:						
	student_data_LqxGVhx.csv		raise e						
	Student_data.csv Resources								
	> templates		noturn tonget medal						
	> uploads		return target_model						
	♦ .gitignore								
	■ db.sqlite3								
	<pre>exported_Customer_data_2</pre>	PROBLEMS	OUTPUT DEBUG CONSOLE TERMINAL POR						
	exported_Student_data_202	F2024_08	3-14 17.25.44 779. TNEO/MainProcess Color	m/9DELL peady					
8	<pre>exported_students_data_20</pre>	[2024-08	3-14 17:26:36,533: INFO/MainProcess] Task	dataentry.tasks.impor	t_data_task[8f	4b8ac4-ac3f-48d7	-bee3-643b761c77f	3] received	
	🖗 manage.pv	10004 00		the designed from the	CON CAR				

6. We also updated our DATAENTRY\VIEWS.PY to be able to call our error-handling function, check_for_csv,

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	EXPLORER ····	🗣 exportidata.nv 🖉 urls.nv. autocommontasks_main M 🔮 views,py autocommontasks_main M 🔮 tasks,py U
~	✓ AUTOMATINGCOMMONTASKS	dataentry > 🔹 views.py > ♀ import_data
G	∨ autocommontasks_m ●	1 from django.shortcuts import render, redirect
	pycache	2 from utils import get all custom models, check csv error
	🔹 _initpy 🛛 M	The value and be the set usion inducts, encoded of the
	🍨 asgi.py	3 from uploads.models import upload
្រៃ	🔹 celery.py 🛛 U	4 from django.conf import settings
	🔹 settings.py 🛛 M	5 from django.contrib import messages
	🔹 urls.py 🛛 M	
24	🔹 views.py 🛛 M	7 from tasks import data task
<u>п</u> 0	🍨 wsgi.py	

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~ ·	✓ AUTOMATINGCOMMONTASKS		lataentry >		ws.py > 😚 i	mport_data									
C,	✓ autocommontasks_m		10	def	import	<pre>data(request):</pre>									
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	 setungs.py urls.nv 	M													
æ	views.pv	м	15	15 model_name = request.POS1.get('model_name')											
-0	wsgi.py														
<u>Ho</u>	 dataentry 														
					up	upload = Upload.objects.create(file=file_path, model_name=model_name)									
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π															
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	> migrations														
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	admin.py														
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	- utiny				ex	cept Exception	as e:								
	views.py	м				<pre>messages.erro</pre>	r(request, s	tr(e))							
	✓ media\uploads					return redire	ct('import_d	lata')							
	customer_demo_record														
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	customer_demo_record				im	port_data_task.	delay(file_p	ath, model_r	ame)						
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	♦ .gitignore 45 ······#·print(custom_models)														
F db.sqlite3 46 context = {															
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263	> OUTLINE				recuri	request	, uacaentry	7 impor cuata.	, cont						

7. Run your Django-server (use \$ python manage.py runserver), Redis (use \$ redis-cli ping), Celery (use \$ celery -A autocommontasks_main worker --loglevel=info --pool=solo) and upload Customer to Student Model, we get this user friendly message instead.



Import Data From CSV File to Database Tables

Upload CSV File								
Choose File No file chosen								
Select Database Table								
Select	~							
Import Data								
CSV file does not match with the Student table fields								

8. Now run this with your large data like EMPLOYEE.CSV to employee model. You should be able to see a user-friendly message instead of your webpage just loading for so long.

Import Data From CSV File to Database Tables

		Upload CSV File	
		Choose File employee_1M.csv	
		Select Database Table	
		Employee	v
		Import Data	
BE	FORE	UPLOADING:	
	υ	Denise Morgan Library Assistant	
		Susan Pope Library Assistant	
		Mark Carter Library Assistant	
	1	2 3 4 1336 1337 133700 employees	

AFTER UPLOADING: Your celery must be able to receive the task request but now the user can do other things since celery handles the time-consuming data importing in the background.

< → C ()	nttp://127.0.0.1:8000/import-data/	Q	☆	Ď	≡J	8	~ AUTOMATINGCOMMONT/	ASKS	dataentry :	A viewspy between management at a subpy of the providence of t
	ttp://127.0.0.15000/mport-data/ Import Data From CSV File to Databas Upload CSV File (Choose File To file chosen Secto Database Table Sector Database Sector Database Your Datab	۹ e Table	☆ S		-	S		ASSES M U U M M M M U U U M M M	Cataentry 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 PROBLOWS 20 24 25 PROBLOWS 20 20 20 20 20 20 20 20 20 20	<pre>versup > 0 montdat def import_data(request): if request.method == 'POST': if request.method == 'POST': if request.method == 'POST': if request.method == 'POST': if a spin the server submitted file using its path if le_path = request.FILES.get('ile_path') if a spin the server submitted file using its path if a spin the server submitted file using its path if a spin the server submitted file using its path if a spin the server submitted file using its path if a spin the server submitted file using its path if a spin the server submitted file using its path if a spin the server submitted file using its path if a spin the server submitted file using its path if a spin the server submitted file using its path model_name if a spin the spin th</pre>
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