Explain What is SQL how it is useful SQL is **the most commonly used database language**, and so it can be used for almost any company that needs to store relational data. Queries within SQL are used to retrieve data from the database, but the queries vary in efficiency

Subcounty_population_density • Write a SQL statement to display specific columns the county name, subcounty name, total population, square kilometers and population density for all records.

county_name	subcounty_name	total	square_kms	
Mombasa	THARAKA NITHI	131882	18	
Mombasa	THARAKA NITHI	163415	37	
Mombasa	THARAKA NITHI	291930	88	
Mombasa	THARAKA NITHI	250358	40	
Mombasa	THARAKA NITHI	154171	15	
Mombasa	THARAKA NITHI	216577	23	
Kwale	THARAKA NITHI	94220	1612	
Kwale	THARAKA NITHI	198423	2765	
Kwale	THARAKA NITHI	194252	1034	
Kwale	THARAKA NITHI	177690	412	
Kwale	THARAKA NITHI	202235	2430	
Kilifi	THARAKA NITHI	62335	193	
Kilifi	THARAKA NITHI	143906	3218	
Kilifi	THARAKA NITHI	193682	706	
Kilifi	THARAKA NITHI	22638	181	
Kilifi	THARAKA NITHI	178824	264	
Kilifi	THARAKA NITHI	206753	290	
Kilifi	THARAKA NITHI	191610	5229	
Kilifi	THARAKA NITHI	333226	2263	
Kilifi	THARAKA NITHI	120813	208	
Tana River	THARAKA NITHI	110640	15432	
Tana River	THARAKA NITHI	116757	13305	

ubcounty_population_density 7 ×

• Write an SQL Query to display the county_name, subcounty_name, total, male, female sorted by female population. Subcounty with highest female population is on top.

sult Grid	National Property of the Prope		Ex	port:
county_name	subcounty_name	total	male	female
Nairobi	THARAKA NITHI	988808	492476	496270
Nairobi	EMBAKASI	988808	492476	496270
Nairobi	EMBAKASI	988808	492476	496270
Nairobi	THARAKA NITHI	780656	381234	399385
Nairobi	KASARANI	780656	381234	399385
Nairobi	KASARANI	780656	381234	399385
Nairobi	THARAKA NITHI	626482	307642	318809
Nairobi	NJIRU	626482	307642	318809
Nairobi	NJIRU	626482	307642	318809
Nairobi	THARAKA NITHI	434208	217651	216526
Nairobi	DAGORETTI	434208	217651	216526
Nairobi	DAGORETTI	434208	217651	216526
Tharaka Nithi	THARAKA NITHI	393177	193764	199406
Tharaka Nithi	THARAKANITHI	393177	193764	199406
Tharaka Nithi	THARAKANITHI	393177	193764	199406
Kiambu	THARAKA NITHI	371111	180947	190144
Kiambu	RUIRU	371111	180947	190144
Kiambu	RUIRU	371111	180947	190144
Nakuru	THARAKA NITHI	355383	179222	176132
Nakuru	NAIVASHA	355383	179222	176132
Nakuru	NAIVASHA	355383	179222	176132
Kilifi	THARAKA NITHI	333226	163351	169866
county_popula	tion_density 12 🗴			

• Write an SQL query to calculate total population of all sub counties. (Use SQL aggregate functions)

subcounty_name total_population THARAKA NITHI 47957473 CHANGAMWE 395646 JOMVU 490245 KISAUNI 875790 LIKONI 751074 MVITA 462513 NYALI 649731 KINANGO 282660 LUNGA LUNGA 595269 MATUGA 582756 MSAMBWENI 533070 SAMBURU 606705 CHONYI 187005 GANZE 431718 KALOLENI 581046 KAUMA 67914 KILIFI NORTH 536472 KILIFI SOUTH 620259 MAGARINI 574830 MALINDI 999678 RABAI 362439 TANA DELTA 331920		
CHANGAMWE 395646 JOMVU 490245 KISAUNI 875790 LIKONI 751074 MVITA 462513 NYALI 649731 KINANGO 282660 LUNGA LUNGA 595269 MATUGA 582756 MSAMBWENI 533070 SAMBURU 606705 CHONYI 187005 GANZE 431718 KALOLENI 581046 KAUMA 67914 KILIFI NORTH 536472 KILIFI SOUTH 620259 MAGARINI 574830 MALINDI 999678 RABAI 362439 TANA DELTA 331920	subcounty_name	total_population
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KISAUNI 875790 LIKONI 751074 MVITA 462513 NYALI 649731 KINANGO 282660 LUNGA LUNGA 595269 MATUGA 582756 MSAMBWENI 533070 SAMBURU 606705 CHONYI 187005 GANZE 431718 KALOLENI 581046 KAUMA 67914 KILIFI NORTH 536472 KILIFI SOUTH 620259 MAGARINI 574830 MALINDI 999678 RABAI 362439 TANA DELTA 331920	CHANGAMWE	395646
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KINANGO 282660 LUNGA LUNGA 595269 MATUGA 582756 MSAMBWENI 533070 SAMBURU 606705 CHONYI 187005 GANZE 431718 KALOLENI 581046 KAUMA 67914 KILIFI NORTH 536472 KILIFI SOUTH 620259 MAGARINI 574830 MALINDI 999678 RABAI 362439 TANA DELTA 331920	MVITA	462513
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MATUGA 582756 MSAMBWENI 533070 SAMBURU 606705 CHONYI 187005 GANZE 431718 KALOLENI 581046 KAUMA 67914 KILIFI NORTH 536472 KILIFI SOUTH 620259 MAGARINI 574830 MALINDI 999678 RABAI 362439 TANA DELTA 331920	KINANGO	282660
MSAMBWENI 533070 SAMBURU 606705 CHONYI 187005 GANZE 431718 KALOLENI 581046 KAUMA 67914 KILIFI NORTH 536472 KILIFI SOUTH 620259 MAGARINI 574830 MALINDI 999678 RABAI 362439 TANA DELTA 331920	LUNGA LUNGA	595269
SAMBURU 606705 CHONYI 187005 GANZE 431718 KALOLENI 581046 KAUMA 67914 KILIFI NORTH 536472 KILIFI SOUTH 620259 MAGARINI 574830 MALINDI 999678 RABAI 362439 TANA DELTA 331920	MATUGA	582756
CHONYI 187005 GANZE 431718 KALOLENI 581046 KAUMA 67914 KILIFI NORTH 536472 KILIFI SOUTH 620259 MAGARINI 574830 MALINDI 999678 RABAI 362439 TANA DELTA 331920	MSAMBWENI	533070
GANZE 431718 KALOLENI 581046 KAUMA 67914 KILIFI NORTH 536472 KILIFI SOUTH 620259 MAGARINI 574830 MALINDI 999678 RABAI 362439 TANA DELTA 331920	SAMBURU	606705
KALOLENI 581046 KAUMA 67914 KILIFI NORTH 536472 KILIFI SOUTH 620259 MAGARINI 574830 MALINDI 999678 RABAI 362439 TANA DELTA 331920	CHONYI	187005
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KILIFI NORTH 536472 KILIFI SOUTH 620259 MAGARINI 574830 MALINDI 999678 RABAI 362439 TANA DELTA 331920	KALOLENI	581046
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MAGARINI 574830 MALINDI 999678 RABAI 362439 TANA DELTA 331920	KILIFI NORTH	536472
MALINDI 999678 RABAI 362439 TANA DELTA 331920	KILIFI SOUTH	620259
RABAI 362439 TANA DELTA 331920	MAGARINI	574830
TANA DELTA 331920	MALINDI	999678
	RABAI	362439
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• Write an SQL query that retrieves the county_name, the average population density of the subcounties. Order the retrieved results by county name first and then population density descending. (Group by aggregate function) • Write an SQL query to retrieve rows where the subcounty is in Nyandarua county. Notice some of these subcounties have typing mistakes. Update the names of the subcounties without typing mistakes. (SQL UPDATE query)

