Information System Development

Assignment 02 - Model

Query Problem

- Each student should solve the given problem using Structured Query Language (SQL) syntax for sqlite3 in Django framework.
- Student need to write the SQL in a word processing file (word, hwp, etc.) that easy for evaluation.

Table information: "Sales"

Column Name in the "List of Sales"	Field Name in the models	Type
Continent	continents	CharField(max_length = 50)
City	city	CharField(max_length = 50)
Country	country	CharField(max_length = 50)
Product	product	CharField(max_length = 50)
Category	categories	CharField(max_length = 50)
Sales	sales	FloatField(default = 0)
Quantity	quantity	PositiveIntegerField(default=0)
Order_Priority	order_priority	CharField(max_length = 10)

Data (List of Sales)

List of Sales

ID	Continent	City	Country	Product	Category	Sales	Quantity	Order Priority
1	Asia Pacific	Wollongong	Australia	Samsung Convoy 3	Technology	221.98	2	High
2	Asia Pacific	Brisbane	Australia	Nokia Smart Phone	Technology	5175.17	9	Medium
3	Europe	Berlin	Germany	Motorola Smart Phone	Technology	2892.51	5	Medium
4	Africa	Dakar	Senegal	Sharp Wireless Fax	Technology	2832.96	8	Critical
5	USCA	Oklahoma	United States	Samsung Smart Phone	Technology	221.98	2	High
6	Asia Pacific	Sydney	Australia	Samsung Smart Phone	Technology	2862.68	5	Critical
7	Asia Pacific	Hamilton	New Zealand	Conference Table	Furniture	5244.84	6	High
8	USCA	Oklahoma	United States	Facets Collection Library	Furniture	341.96	2	High
9	USCA	Seattle	United States	Newell 330	Office Supply	17.94	3	High
10	LATAM	Toledo	Brazil	Leather chair	Furniture	4626.15	5	High

Questions

- Make query to show the result as follows:
  - (10 pts) Product, Category that have sales greater than 1000
  - (10 pts) Continent that has sales greater than 1000
  - (10 pts) City and Country that have Order Priority = "High"
  - (15 pts) Count the number of continents which have Quantity greater than 4.
  - (15 pts) Count the number of Country which have the Order Priority "High" and "Critical".
  - (20 pts) City, Country, Product, Quantity, Order Priority that have quantity greater than 4 order by Quantity (descending)
  - (20 pts) City, Country, Product, Quantity that have sales greater than 1000 order by Product

For example:

- For example, if the question is as follow:
  - Show the sales where the product name start with the word "Samsung".
- Then, you write your SQL:
  - Sales.objects.filter(product__startswith = "Samsung")

Evaluation Criteria

- The instructor will replicate your query (SQL) to the Python shell in the instructor's computer.

- It means, your model should have the same Field name as shown in page 2.

- Please freely to search on the internet for better result.

Lookup Expression	Description
gt	Greater than
gte	Greater than or equal
lt	Less than
lte	Less than or equal
icontains	The word contains in the data
startswith	The word starts with a character
endswith	The word ends with a character