Examples of queries

Category A

1. Return the statistics with the number of newly created events per each country for the last 6 full hours, excluding the last hour. The report should be in a format : [{country1: number1}, {country2: number2},..].

2. Return the statistics containing the information about which groups posted the events at each US state in the last 3 full hours, excluding the last hour. The names of the states should be full, not only the state code.
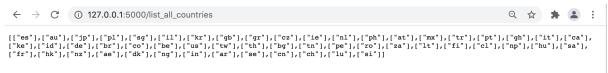
3. The most popular topic of the events for each country posted in the last 6 hours, excluding the last hour. The popularity is calculated based on the number of occurrences topic has amongst all the topics in all the events created in that country during the specified period.

Category B (ad-hoc queries):

1. Return the list of all the countries for which the events were created.

127.0.0.1:5000/list_all_countries

[["es"],["au"],["jp"],["pl"],["sg"],["il"],["kr"],["gb"],["gr"],["cz"],["ie"],["nl"],["ph"],["at"],["mx"],["tr"],["pt"],["gh"],["it"],["ca"],
["ke"],["id"],["de"],["br"],["co"],["be"],["us"],["tw"],["th"],["bg"],["tn"],["pe"],["ro"],["za"],["lt"],["fi"],["cl"],["np"],["hu"],["sa"],
["fr"],["hk"],["nz"],["ae"],["dk"],["ng"],["in"],["ar"],["se"],["cn"],["ch"],["lu"],["si"]]

2. Return the list of the cities for the specified country where at least one event was created.

127.0.0.1:5000/list_all_cities_by_country/us

[["Abington"],["Akron"],["Alameda"],["Albany"],["Albuquerque"],["Alexandria"],["Allentown"],["Alpharetta"],["Altamonte Springs"],["Amesbury"]
["Anchorage"],["Ann Arbor"],["Annandale"],["Annapolis"],["Appleton"],["Arlington"],["Arlington Heights"],["Armonk"],["Ashburn"],["Asheville"]
["Athens"],["Atlanta"],["Augusta"],["Austin"],["Bakersfield"],["Baltimore"],["Baton Rouge"],["Bayonne"],["Bel Air"],["Bend"],["Birmingham"],
["Boise"],["Bolingbrook"],["Boston"],["Boulder"],["Bowie"],["Brentwood"],["Bridgeville"],["Brookline Village"],["Brooklyn"],["Burlington"],
["Cambridge"],["Canton"],["Cape Coral"],["Carmel"],["Carmichael"],["Cary"],["Cave Creek"],["Cedar Grove"],["Centreville"],["Chandler"],
["Chantilly"],["Chapel Hill"],["Charleston"],["Charlotte"],["Cherry Hill"],["Chesapeake"],["Chevy Chase"],["Chicago"],["Cincinnati"],
["Clearfield"],["Clearwater"],["Clementon"],["Cleveland"],["Clinton Township"],["Colorado Springs"],["Columbus"],["Concord"],["Conway"],
["Cornelius"],["Costa Mesa"],["Culver City"],["Cupertino"],["Dallas"],["Darien"],["Dayton"],["Daytona Beach"],["Dearborn"],["Deerfield Beach"]
["Delray Beach"],["Denver"],["Dunedin"],["Durham"],["East Brunswick"],["Easton"],["Edmonds"],["El Paso"],["Elkins Park"],["Englewood"],
["Evansville"],["Fairfax"],["Farmingdale"],["Fayetteville"],["Flowery Branch"],["Forney"],["Fort Collins"],["Fort Lauderdale"],["Fort Myers"]
["Fort Worth"],["Frederick"],["Freehold"],["Georgetown"],["Glen Ellyn"],["Grand Rapids"],["Grapevine"],["Grayslake"],["Greensboro"],
["Greenville"],["Hartford"],["Haverhill"],["Hellertown"],["Hendersonville"],["Henrico"],["Herndon"],["Hoboken"],["Honolulu"],["Houston"],
["Huntersville"],["Huntington"],["Huntington Beach"],["Indianapolis"],["Irvine"],["Jacksonville"],["Kansas City"],["Kew Gardens"],["Keyport"]
["King of Prussia"],["Kirkland"],["Lafayette Hill"],["Laguna Hills"],["Lake Mary"],["Lake Peekskill"],["Lake Worth"],["Lancaster"],["Lansing"]
["Las Cruces"],["Las Vegas"],["Laurel"],["Lenexa"],["Littleton"],["Livonia"],["Londonderry"],["Lone Tree"],["Long Beach"],["Long Island City"]
["Los Angeles"],["Louisville"],["Loveland"],["Macungie"],["Madison"],["Malden"],["Manasquan"],["Manchester"],["Manchester Center"],
["Marlboro"],["Marlton"],["Maryville"],["Maxatawny"],["Mc Lean"],["McKinney"],["Mechanicsville"],["Medford"],["Mesa"],["Metuchen"],["Miami"],
["Miami Beach"],["Milford"],["Milwaukee"],["Minneapolis"],["Mission Viejo"],["Monsey"],["Montclair"],["Morristown"],["Morrisville"],["Mount
Laurel"],["Mountain View"],["Murfreesboro"],["Myrtle Beach"],["Naperville"],["Naples"],["Nashville"],["New Haven"],["New Paltz"],["New Port
Richey"],["New York"],["Newark"],["Newington"],["Norristown"],["North Attleboro"],["North Charleston"],["North Little Rock"],["North Wales"],
["Northbrook"],["Northridge"],["Northville"],["Novi"],["O Fallon"],["Oakland"],["Oakton"],["Ocean Grove"],["Oceanside"],["Omaha"],["Orlando"]
["Owings Mills"],["Paducah"],["Palo Alto"],["Parker Ford"],["Parsippany"],["Patchogue"],["Pensacola"],["Peoria"],["Pflugerville"],
["Philadelphia"],["Phoenix"],["Pinellas Park"],["Piscataway"],["Pittsburgh"],["Plainview"],["Plano"],["Plymouth Meeting"],["Pompano Beach"],
["Port Richey"],["Portland"],["Portsmouth"],["Prescott"],["Princeton"],["Quakertown"],["Raleigh"],["Red Bank"],["Redmond"],["Reno"],["Reston"]
["Richmond"],["Ridgewood"],["Rochester"],["Rockville"],["Rocky Hill"],["Rolling Meadows"],["Roswell"],["Sacramento"],["Saint Augustine"],
["Saint Charles"],["Saint Louis"],["Saint Paul"],["Saint Petersburg"],["Salem"],["Salisbury"],["Salt Lake City"],["San Antonio"],["San
Clemente"],["San Diego"],["San Francisco"],["San Jose"],["San Juan"],["Santa Clara"],["Santa Fe"],["Santa Monica"],["Santa Rosa"],["Sarasota"]
["Saratoga Springs"],["Sayville"],["Schaumburg"],["Schenectady"],["Scottsdale"],["Seattle"],["Silver Spring"],["Simi Valley"],["Smithtown"],
["Somerville"],["South Jordan"],["South Pasadena"],["Southbury"],["Spring"],["Springfield"],["Stevens Point"],["Stony Brook"],["Stratford"],
["Summit"],["Sunnyvale"],["Tacoma"],["Tallahassee"],["Tampa"],["Tempe"],["Tinley Park"],["Titusville"],["Tonawanda"],["Torrance"],["Towson"],
["Trenton"],["Trexlertown"],["Troy"],["Trumbull"],["Tucson"],["Union City"],["Valparaiso"],["Van Nuys"],["Vienna"],["Wallingford"],["Walnut
Creek"],["Waltham"],["Wantagh"],["Warren"],["Warrington"],["Washington"],["Waxhaw"],["Wayne"],["West Chester"],["West Palm Beach"],["Weston"]
["Wheeling"],["Wildomar"],["Wilmington"],["Windsor"],["Woodside"],["Woodstock"],["Worcester"],["Youngstown"]]

3. Given the event id, return the following details:

127.0.0.1:5000/event_details_by_id/276981110

[{"event_name":"Belfast Cowboys at Lake Harriet - Woot Woot","event_time":"2021-07-24
00:30:00","group_city":"Minneapolis","group_country":"us","group_name":"Vintage 1960 Minneapolis","topics":["New In Town","Baby
Boomers","Social Networking","Fun Times","Over 40","Local Activities","Making New Friends Over 40","Socializing for 40+"]}]

4. Return the list of the groups which have created events in the specified city. It should contain the following details:

[{"group_city":"London","group_id":"10288002","group_name":"Virtual Java User Group"},
{"group_city":"London","group_id":"10455592","group_name":"The London Warhammer Gaming Guild"},
{"group_city":"London","group_id":"11204762","group_name":"London Podcasting Community"},
{"group_city":"London","group_id":"13068362","group_name":"Fit and Happy Outdoors"},
{"group_city":"London","group_id":"14078322","group_name":"London Business Analytics Group"},
{"group_city":"London","group_id":"1489374","group_name":"London Social Hiking"},
{"group_city":"London","group_id":"1606962","group_name":"ProductTank"},{"group_city":"London","group_id":"16693392","group_name":"FREE Outdoor
Trips From London"},{"group_city":"London","group_id":"17432962","group_name":"ISO Badminton Club"},
{"group_city":"London","group_id":"1749213","group_name":"Free Stuff and Free Events – try new things"},
{"group_city":"London","group_id":"1754359","group_name":"Outdooraholics London Hiking, Adventure Travel – 25 to 49ish"},
{"group_city":"London","group_id":"1761885","group_name":"Berkeley Square Speakers Toastmasters (Public Speaking)"},
{"group_city":"London","group_id":"18219147","group_name":"Acting Gymnasium – unique weekly acting workshop"},
{"group_city":"London","group_id":"18391502","group_name":"London WooCommerce Meetup"},
{"group_city":"London","group_id":"18416125","group_name":"Service Lab London"},
{"group_city":"London","group_id":"18519505","group_name":"Mobile UX London"},{"group_city":"London","group_id":"18535150","group_name":"East
London Gay Men's Meetup"},{"group_city":"London","group_id":"18595131","group_name":"Tropicana Dance London (Salsa– Bachata)"},
{"group_city":"London","group_id":"19952695","group_name":"Quaker Quest London"},
{"group_city":"London","group_id":"20243880","group_name":"FREE Expat, Travelers & World Citizen Events in London"},
{"group_city":"London","group_id":"20302800","group_name":"Tabletop gamers of the London Docklands"},
{"group_city":"London","group_id":"20448700","group_name":"I WANTED TO DO THAT THIS WEEKEND...Just not alone!!"},
{"group_city":"London","group_id":"21745305","group_name":"London Co-Ed Naked Yoga NOW ONLINE \"LIVE\" classes"},
{"group_city":"London","group_id":"23229047","group_name":"UKBlackTech"},{"group_city":"London","group_id":"23480913","group_name":"The Virtual
Library (London Co-Working Group)"},{"group_city":"London","group_id":"25128795","group_name":"DevOps Underground"},
{"group_city":"London","group_id":"255112","group_name":"The London Indie Music Meetup Group"},
{"group_city":"London","group_id":"26403658","group_name":"DevSecOps – London Gathering"},
{"group_city":"London","group_id":"26970769","group_name":"LGBT+ 20s and 30s"},
{"group_city":"London","group_id":"27018539","group_name":"Nature & Art Lovers Walking Group"},
{"group_city":"London","group_id":"27574714","group_name":"London Singles Speed Dating and Parties"},
{"group_city":"London","group_id":"28555266","group_name":"London Enterprise Agile Guild"},
{"group_city":"London","group_id":"29598712","group_name":"London Alt Gigs and Cult Cinema (AKA Social Online Cinema)"},
{"group_city":"London","group_id":"29718585","group_name":"London AI/ML/Data Developers Group"},
{"group_city":"London","group_id":"29827948","group_name":"Let's talk Data"},{"group_city":"London","group_id":"29882074","group_name":"Fun and
Fascinating Tours"},{"group_city":"London","group_id":"30047145","group_name":"Social Meetings"},
{"group_city":"London","group_id":"3034712","group_name":"AWS User Group UK"},{"group_city":"London","group_id":"30415687","group_name":"IBM
Cloud – London"},{"group_city":"London","group_id":"30511068","group_name":"Crowd & Country"},
{"group_city":"London","group_id":"30585150","group_name":"London Consciousness Group - Manifesting your Abundant Life"},

5. Return all the events that were created by the specified group (group id will be the input parameter). Each event in the list should have the format as in the API #3.

[{"event_name":"Network After Work | Burlock Mayfair | Make New Friends & Connections ","event_time":"2021-06-25
18:30:00","group_city":"London","group_country":"gb","group_name":"I WANTED TO DO THAT THIS WEEKEND...Just not alone!!","topics":["Meeting New
People that Share the Same Interest","exploring London","Meeting New and Exciting People","Adventure","Young Professionals","Social","New In
Town","Nightlife","20's & 30's Social","Fun Times","London","Social Networking","Eating, Drinking, Talking, Laughing, Etc","Local
Activities","Dancing"]}]