**SQL Homework**

1. **Perform the following queries on "Locations" table:**

***a. select all locations that have the capacity between 200 and 1000 persons***

SELECT \* FROM Locations WHERE Capacity BETWEEN 200 AND 1000;

***b. select all locations that have "a" in their name***

SELECT \* FROM Locations WHERE LocationName LIKE '%a%';

***c. Select all locations that are not in Cluj-Napoca***

SELECT \* FROM Locations WHERE NOT (City = 'Cluj-Napoca');

***d. Select all locations that have the cost 0,500,600, are in Brasov and Cluj-Napoca, and can sustain a capacity greater that 1000 persons***

SELECT \* FROM Locations WHERE Cost IN ('0', '500', '600') AND City IN ('Cluj-Napoca', 'Brasov') AND Capacity >'1000';

1. **Perform the following queries on "Events" table**:

***a. return the results for min, max, average based on "EventCost" column***

SELECT min(EventCost) AS 'MinPrice', max(EventCost) AS 'MaxPrice', avg(EventCost) AS 'AvgPrice' FROM Events;

***b. count how many events are associated to location 1 and 2***

SELECT COUNT(LocationID) AS NumberOfEvents FROM Events WHERE LocationID IN ('1' , '2');

***c. compute the average cost obtained from location 1***

SELECT LocationID, Avg(EventCost) AS AvgCost FROM Events WHERE LocationID=('1');

***d. order the events based on their defined date***

SELECT EventName, EventDate FROM Events Order by EventDate;

***e. compute the total cost associated with each location (hint grouped by)***

SELECT EventName, SUM(EventCost) AS "TotalCost" FROM Events GROUP BY EventName WITH ROLLUP;

**3. Perform the following queries using both tables**

***a. Order location name, descending, after their associated event cost***

SELECT LocationName, EventCost FROM Locations INNER JOIN Events ON Locations.LocationID = Events.EventID ORDER by EventCost DESC;

***b. Select location name, location cost and event cost for a specific event***

SELECT LocationName, Cost AS 'Location Cost', EventCost FROM Locations INNER JOIN Events ON Locations.LocationID = Events.EventID WHERE EventName=('Zilele Orasului Cluj');

***c. Return the first 3 events (with eventName, locationname), that have the greatest event cost, in alphabetical order (after their names)***

SELECT EventName, LocationName, EventCost FROM Locations INNER JOIN Events ON Locations.LocationID = Events.EventID GROUP BY Cost ORDER BY EventName,LocationName DESC LIMIT 3;