

## COMP 1100 Homework 08 – SQL

Name	Date
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Pictured below is a relational database consisting of six tables. On the next page are a series of prompts for SQL queries that you are to write for this assignment based on this database.

### CUSTOMER

Id	FirstName	LastName	BillingAddress
1	Egon	Spengler	8993 Phony Blvd.
2	Winston	Zedmore	2324 Utopian Way
3	Peter	Venkman	9843 Easy Street
4	Ray	Stanz	5445 Primrose Path
5	Russell	Ziskey	1313 Mockingbird Lane

### ARTIST\_TYPES

Id	CategoryName
1	Classical Cellist
2	Rock
3	Beat Poetry

### ORDERS

CustomerId	EventId	TicketPrice	Quantity
1	2	50.00	3
2	1	75.00	
2	3	25.00	4
4	5	100.00	2
4	4	25.00	2
3	1	75.00	1
3	2	50.00	1

### EVENT

Id	ArtistId	VenueId	EventName	EventDate	EventLength
1	1	1	The Long Tour	12-JUN-2012	180
2	1	4	The Short Tour	19-JUL-2012	90
3	3	2	Workaday Blues Tour	15-AUG-2012	90
4	3	3	Workaday Blues Tour	17-AUG-2012	90
5	2	3	Louis Speaks	02-SEP-2012	180

### VENUE

Id	VenueName	Capacity	VenueAddress
1	Theater Zuul	250	456 Imaginary Avenue
2	Gozer's Bar and Grill	40	123 Fake Street
3	Vigo's Lounge	60	7734 Illusory Road
4	Theater Clortho	100	9893 Fictional Place

### ARTIST

Id	FirstName	LastName	CategoryId
1	Dana	Barrett	1
2	Louis	Tully	3
3	Janine	Melnitz	2

Given the database above, provide the SQL for the following queries:

1. List the first name and last name of every customer that has an order in the system, along with the name of the events they are attending and the quantity of tickets they've purchased for each event.
  2. List the name of each event, the name of each artist playing at that event, the category name for that artist, and the name of the venue associated with the event.
  3. List the first name and last name of every customer along with the names of the events they are attending and the quantity of tickets they've purchased for each event. Include customers who are in the system but are not attending any events.
  4. List all events that are being held in venues that have a capacity of exactly 100, 200 or 300.
  5. List the ids and names of all events and the total number of tickets that have been sold for those events in decreasing order of total tickets sold.
  6. Give the average total number of tickets per event that have been sold
  7. List the ids and names of all events with an above average number of total tickets sold.
  8. List the first name and the last name of every customer that is attending at least one event, along with the average estimated length of time they will be spending at each event. (EventLength gives the estimated time in minutes for each event).
  9. List the first name and last name of all of the artists who are playing events at the venue with the largest capacity. If there are multiple venues that are tied for the venue with the largest capacity, your query should list artists who are playing events at any of them.
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