

# GROUP PROJECT – MILESTONE 2

SEGR 5300

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## Exercise 4: ANALYTIC QUERIES and Integration into TABLEAU or EXCEL

Analytical query 1:

select event information and number of attendance

### Tableau

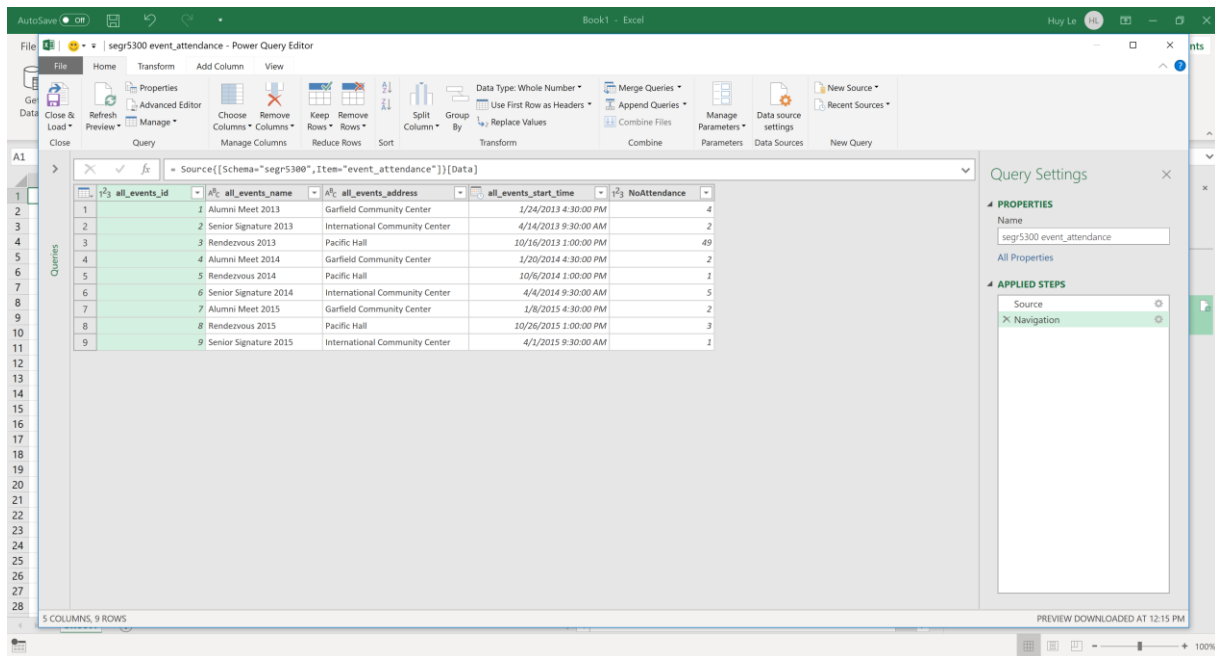
The screenshot shows the Tableau Desktop interface. On the left, the 'Connections' pane shows 'localhost MySQL' and the 'Database' pane shows 'segr5300'. The 'Table' pane lists various tables including 'company', 'contacts', 'country', 'department', 'noalum\_dept', 'program', 'program\_categories', 'toplivedonation', 'viewallevents catalogue', 'viewdonationbycampaign', and 'viewtop5donation'. A 'New Custom SQL' button is visible. The main view is titled 'Event Information and attendance (segr5300)' and shows a table with 9 rows. An 'Edit Custom SQL' dialog box is open, displaying the following SQL query:

```
select ae.all_events_id, ae.all_events_name, ae.all_events_address, ae.all_events_start_time,
       (select count(*) as NoAttendance, ales.all_events_id
        from alum_events ales
        where ales.attended = 1
        group by ales.all_events_id) ale
  on ae.all_events_id = ale.all_events_id
```

The results table has the following columns: #, all\_events\_id, all\_events\_name, all\_events\_address, all\_events\_start\_time, and NoAttendance. The data is as follows:

#	all_events_id	all_events_name	all_events_address	all_events_start_time	NoAttendance
1	1	Alumni Meet 2013	Garfield Community Center	1/24/2013 4:30:00 PM	4
2	2	Senior Signature 2013	International Community ...	4/14/2013 9:30:00 AM	2
3	3	Rendezvous 2013	Pacific Hall	10/16/2013 1:00:00 PM	49
4	4	Alumni Meet 2014	Garfield Community Center	1/20/2014 4:30:00 PM	2
5	5	Rendezvous 2014	Pacific Hall	10/6/2014 1:00:00 PM	1
6	6	Senior Signature 2014	International Community ...	4/4/2014 9:30:00 AM	5
7	7	Alumni Meet 2015	Garfield Community Center	1/8/2015 4:30:00 PM	2
8	8	Rendezvous 2015	Pacific Hall	10/26/2015 1:00:00 PM	3
9	9	Senior Signature 2015	International Community ...	4/1/2015 9:30:00 AM	1

## Excel

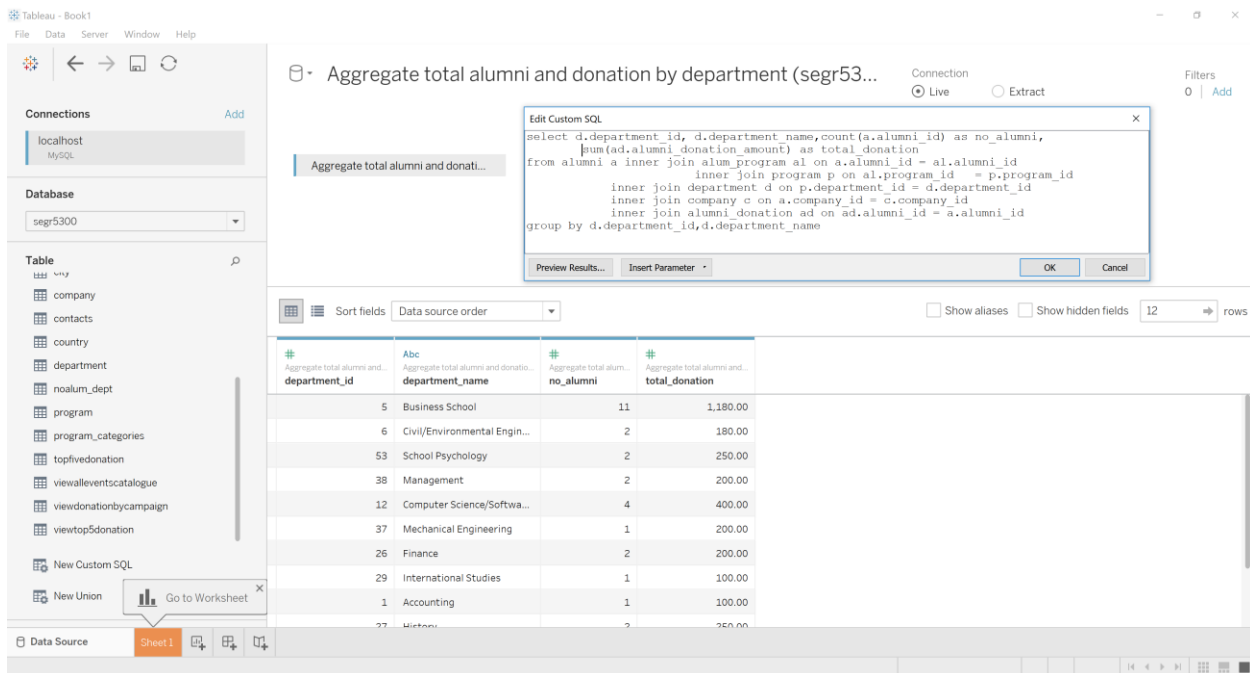


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5	Rendezvous 2014	Pacific Hall	10/6/2014 1:00:00 PM	1
6	Senior Signature 2014	International Community Center	4/4/2014 9:30:00 AM	5
7	Alumni Meet 2015	Garfield Community Center	1/8/2015 4:30:00 PM	2
8	Rendezvous 2015	Pacific Hall	10/26/2015 1:00:00 PM	3
9	Senior Signature 2015	International Community Center	4/1/2015 9:30:00 AM	1

## Analytical query 2:

Aggregate total alumni and donation by department.

## Tableau



Aggregate total alumni and donation by department (segr53...

```
select d.department_id, d.department_name, count(a.alumni_id) as no_alumni,
       sum(ad.alumni_donation_amount) as total_donation
from alumni a inner join alum_program al on a.alumni_id = al.alumni_id
              inner join program p on al.program_id = p.program_id
              inner join department d on p.department_id = d.department_id
              inner join company c on a.company_id = c.company_id
              inner join alumni_donation ad on ad.alumni_id = a.alumni_id
group by d.department_id, d.department_name
```

#	Aggregate total alumni and...	#	Aggregate total alumni and...
department_id	department_name	no_alumni	total_donation
5	Business School	11	1,180.00
6	Civil/Environmental Engin...	2	180.00
53	School Psychology	2	250.00
38	Management	2	200.00
12	Computer Science/Softwa...	4	400.00
37	Mechanical Engineering	1	200.00
26	Finance	2	200.00
29	International Studies	1	100.00
1	Accounting	1	100.00
27	Micro...	2	200.00

Excel

AutoSave: ON

Book1 - Excel

Huy Le

FileHomeTransformAdd ColumnView

Close & LoadClose

RefreshPreview

Advanced EditorManageQuery

Choose Remove ColumnsColumns

Keep Remove RowsRows

Sort

Data Type: Whole NumberUse First Row as HeadersReplace Values

Merge QueriesAppend QueriesCombine Files

Manage Parameters

Data source settingsData Sources

New SourceRecent SourcesNew Query

Queries

Source([Schema="segr5300",Item="alum\_donate\_department"])[Data]

	department_id	department_name	no_alumni	total_donation
1	5	Business School	11	1180
2	6	Civil/Environmental Engineering	2	180
3	53	School Psychology	2	250
4	38	Management	2	200
5	12	Computer Science/Software Engineering	4	400
6	37	Mechanical Engineering	1	200
7	26	Finance	2	200
8	29	International Studies	1	100
9	1	Accounting	1	100
10	27	History	2	250
11	35	Mathematics	1	150
12	3	Anthropology, Sociology, & Social work	1	120

Query Settings

PROPERTIES

Name

segr5300 alum\_donate\_department

All Properties

APPLIED STEPS

Source

Navigation

4 COLUMNS, 12 ROWS

PREVIEW DOWNLOADED AT 12:15 PM