

**UNIVERSITI TUNKU ABDUL RAHMAN**

**LEE KONG CHIAN FACULTY ENGINEERING AND SCIENCE**

**ACADEMIC YEAR: 2018**

**FEBRUARY 2018 TRIMESTER**

**UECS1403/UECS1203/UEME4123 DATABASE SYSTEM FUNDAMENTALS / DATABASE MANAGEMENT**

**Course: Software Engineering**

**Year & Trimester of Study: Y1/S3**

**Lecture Group: L1**

**Lecturer’s Name: Dr.Sugumaran a/l Nallusamy**

**Students’ Details:**

|  |  |  |
| --- | --- | --- |
| No. | Name | Student ID No. |
| 1. | Lee Hoe Mun | 1701281 |
| 2. | Tan Ying Yao | 1703648 |
| 3. | Teh Liang Wei | 1703486 |
| 4. | Leong Wei Ren | 1701637 |
| 5. | Lim Zi Yin | 1706602 |

set line 400  
**---- 1.display total donated amount**

select student\_name"Donor Name",sum(donated\_amount)"Total Amount"

from alumni,donation

where alumni.student\_id=donation.student\_id

group by student\_name

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select company\_name"Donor Name",sum(donated\_amount)"Total Amount"

from company,donation

where company.company\_id=donation.company\_id

group by company\_name

order by "Total Amount";  
**---- 2.display the average donated amount is how many percent of student's salary**

select student\_name,round(sum(donated\_amount/salary\*100)/count(donation.student\_id))"Donated Percentage over Salary"

from alumni,donation,work\_experience

where alumni.student\_id=donation.student\_id and alumni.student\_id=work\_experience.student\_id

group by student\_name

order by "Donated Percentage over Salary"DESC;  
**---- 3.to show which fund grab more attention**

select fund\_description,sum(donated\_amount)"Total Fund",round(ratio\_to\_report(sum(donated\_amount)) over ()\*100) "% Total Fund"

from donation,fund

where donation.fund\_id=fund.fund\_id

group by fund\_description

order by sum(donated\_amount);  
**---- 4.to show how many times a student/company donate**

select student\_name"Donor Name",count(donation.student\_id)"Donate Frequency"

from alumni,donation

where alumni.student\_id=donation.student\_id

group by student\_name

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select company\_name"Donor Name",count(donation.company\_id)"Donate Frequency"

from company,donation

where company.company\_id=donation.company\_id

group by company\_name

order by "Donate Frequency";  
**---- 5.to show the average salary for the given degree**

select degree\_name,sum(salary)/count(degree\_name)"Average Salary"

from degree,alumni,work\_experience

where degree.student\_id=alumni.student\_id and alumni.student\_id=work\_experience.student\_id

group by degree\_name

order by "Average Salary";  
**---- 6.to show the contribution each company/student make to a fund**

create or replace VIEW donation\_list AS

select student\_name"Donor Name",fund\_description,sum(donated\_amount)"Total Amount"

from alumni,donation,fund

where alumni.student\_id=donation.student\_id

and fund.fund\_id=donation.fund\_id

group by student\_name,fund\_description

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select company\_name"Donor Name",fund\_description,sum(donated\_amount)"Total Amount"

from company,donation,fund

where company.company\_id=donation.company\_id

and fund.fund\_id=donation.fund\_id

group by company\_name,fund\_description;

select "Donor Name",fund\_description, round(SUM("Total Amount") / CAST( SUM(SUM("Total Amount")) over (partition by fund\_description) as float)\*100)"% Contribution"

from donation\_list

group by fund\_description,"Donor Name";