



GROUP PROJECT

TEAM 11

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WE ARE WORLDWIDE

Data Management & SQLDAT-5305 - FMsBA1

Professor Luis Escamilla

Team 11

Summary

This reflection paper includes a description of the member's contribution and the overall collaboration of Team 11. It also points out the key learning points of the group project as well as identifies different methodologies to be followed in future cases

REPORT

It is fair to say, in terms of teamwork contribution and cooperation, Team 11 managed to successfully collaborate and complete the group project. The team consists of the four (4) following members: Christopher Pramodh, Hanna Laticia Gerharter, Jaswanth Guntumadugu and Fotios Psaroulis. Each member was assigned a task according to their skills and abilities, aiming at delivering the best assignment possible. Christopher's previous experience in accounting, SAP and ability to code well, came in hand when he mapped and filtered all parameters that go into the code. Jaswanth has also strong coding skills and as such, he helped in terms of coding as well as for the conduction of this report. Another exceptionally strong member, Hanna, contributed by facilitating the meetings as well as persistently attempting to code in order to deliver the best outcome possible. Last but not least, Fotios was responsible for the ideation and conduction of this report.

The catalytic reason for the efficacious completion of this project was the harmonious collaboration between the team members. There were three core principles adopted by the members of the group that lead to the fruitful collaboration and a productive atmosphere; Accountability, Sympathy and Balance of work. Each member of the group was accountable for their work and everything was delivered on time. Compassion was key since every member of the group had a different schedule. There were four different time zones while two members of the group had a full-time job, creating a colossal issue in terms of scheduling a group meeting. Lastly, when assigning responsibilities, the team always took into consideration the capabilities of each member while at the same time considered the demanding workload that comes from a full-time job or any personal activities that a fellow student was occupied with.

In terms of the project technicalities, the most difficult part was understanding the business part behind the case study. As Christopher had previous experience with accounting and he was generous enough in didactically sharing his knowledge and experience on financial statements. The idea was to begin by identifying what was needed to be filtered and then mapped out the structure of how the parameters will be used in the code. It was easier that way to get a consensus of what parameters to utilize and move forward with the project.

While coding SQL, a key learning point was that compartmentalising the project into smaller sections and therefore smaller coding modules for those separate sections, and putting them all together at the end, is a far better method than writing the code from top to bottom in one code. This specific methodology helped the team immensely in finding out errors and fixing them as that simplified the process of identification and correction. An additional benefit and learning point with this methodology is creating synergies and all work on different modules simultaneously rather than going one by one. This way, the main issue of the time difference was limited as well as it gave an extra breathing “space” to successfully complete and submit the project before the given deadline. The last learning point was that using store procedures facilitates the process as it's easier to modify and reuse the code rather than write a separate line of code for the different options in the parameter.

Redoing the project from the beginning will entail two changes; firstly, utilize the compartmentalising methodology and assign individual work to move forward faster and more efficiently and utilize GITHUB as a repository to facilitate the sharing, editing, commenting and merging processes of codes and as save time.

Profit and Loss Statement / year 2017:

```
31 WHERE YEAR(je.entry_date) = 2017
32 AND jelt.company_id = 1
33 AND je.debit_credit_balanced = 1
34 AND je.cancelled = 0
35 AND ss.is_balance_sheet_section = 0
36 AND ss.statement_section_id <> 0
37 AND je.closing_type = 0
38 GROUP BY acc.profit_loss_section_id
39 ORDER BY ss.statement_section_order;
40
41 • SELECT * FROM cpramodh2019_view;
42 • SELECT SUM(AMOUNT) AS profit_loss FROM cpramodh2019_view; # "--" is profit and "no sign" is loss
43
```

100% 33:41

Result Grid Filter Rows: Search Export:

statement_section_order	statement_section_id	debit_credit_balanced	profit_loss_section_id	statement_section	Amount	debit_is_positive
1	68	1	68	REVENUE	2,808,086.90	0
7	74	1	74	COST OF GOODS AND SERVICES	-1,847,965.75	1
9	76	1	76	SELLING EXPENSES	-339,760.54	1
10	77	1	77	OTHER EXPENSES	-124,356.54	1

```
31 WHERE YEAR(je.entry_date) = 2017
32 AND jelt.company_id = 1
33 AND je.debit_credit_balanced = 1
34 AND je.cancelled = 0
35 AND ss.is_balance_sheet_section = 0
36 AND ss.statement_section_id <> 0
37 AND je.closing_type = 0
38 GROUP BY acc.profit_loss_section_id
39 ORDER BY ss.statement_section_order;
40
41 • SELECT * FROM cpramodh2019_view;
42 • SELECT SUM(AMOUNT) AS profit_loss FROM cpramodh2019_view; # "--" is profit and "no sign" is loss
43
```

100% 58:42

Result Grid Filter Rows: Search Export:

profit_loss
-462

Balance Sheet / year 2017:

```
64     INNER JOIN statement_section AS ss
65     ON acc.balance_sheet_section_id = ss.statement_section_id
66     WHERE YEAR(je.entry_date) <= 2017
67     AND jelt.company_id = 1
68     AND je.debit_credit_balanced = 1
69     AND je.cancelled = 0
70     AND ss.is_balance_sheet_section = 1
71     AND ss.statement_section_id <> 0
72     GROUP BY acc.balance_sheet_section_id
73     ORDER BY ss.statement_section_order;
74
75 • SELECT * FROM cpramodh2019_view;
76 • SELECT SUM(Amount) AS balance FROM cpramodh2019_view;
```

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Result Grid Filter Rows: Search Export:

statement_section_order	balance_sheet_section_id	statement_section	Amount	debit_is_positive
1	61	CURRENT ASSETS	2,647,129.61	1
2	62	FIXED ASSETS	0.00	1
4	64	CURRENT LIABILITIES	-1,247,975.62	0
7	67	EQUITY	-1,399,153.99	0

```
65     ON acc.balance_sheet_section_id = ss.statement_section_id
66     WHERE YEAR(je.entry_date) <= 2017
67     AND jelt.company_id = 1
68     AND je.debit_credit_balanced = 1
69     AND je.cancelled = 0
70     AND ss.is_balance_sheet_section = 1
71     AND ss.statement_section_id <> 0
72     GROUP BY acc.balance_sheet_section_id
73     ORDER BY ss.statement_section_order;
74
75 • SELECT * FROM cpramodh2019_view;
76 • SELECT SUM(Amount) AS balance FROM cpramodh2019_view;
```

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Result Grid Filter Rows: Search Export:

balance

► 0