

# Report

## Brief Description of the Document

The document provides a comprehensive set of SQL queries designed to extract, aggregate, and analyse financial data from the master\_data table. It focuses on calculating sums and counts of key financial metrics such as AMOUNT\_OVERDUE, Total\_Amount\_Due, PRINCIPAL, and EMI, categorized by fields like Product, Bucket, and NORM\_STATUS. The queries also include advanced ordering and grouping mechanisms to facilitate detailed financial analysis and reporting.

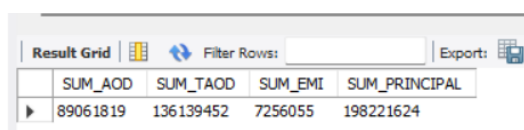
If you want to see data the file name is 'Financial\_MetricsAnalysis\_Data' whose uploaded in [https://github.com/Style-Promote/MySQL\\_Projects/blob/main/Financial\\_MetricsAnalysis\\_Data.csv](https://github.com/Style-Promote/MySQL_Projects/blob/main/Financial_MetricsAnalysis_Data.csv)

## Questions:

- 1) What data is contained in the master\_data table, and what are the total sums of AMOUNT\_OVERDUE, Total\_Amount\_Due, EMI, and PRINCIPAL from this table? This question effectively captures both the intent to view all data and to inquire about specific aggregated financial metrics.
- 2) What are the total sums of AMOUNT\_OVERDUE, Total\_Amount\_Due, Principal, and AMOUNT for each Product in the master\_data table? Additionally, what is the overall total for each of these categories across all products? This question effectively captures the essence of the SQL query by inquiring about the financial metrics and their aggregation by product, as well as the overall totals.
- 3) What are the total sums of AMOUNT\_OVERDUE, Total\_Amount\_Due, EMI, PRINCIPAL, and AMOUNT grouped by Bucket in the master\_data table? Additionally, what is the overall total for each of these categories, and how are these results ordered, particularly with respect to the 'Total' bucket and other specific bucket values? This question effectively captures the intent of the SQL query by asking about the aggregation of financial metrics and their ordering.
- 4) What are the counts of different NORM\_STATUS categories (NORM, RB, STAB, and UNRESOLVED) grouped by Bucket in the master\_data table, and what is the overall total for each status category? Additionally, how are these results ordered, particularly in relation to the 'Total' bucket and other specific bucket values? This question captures the essence of the SQL query by asking about the data aggregation and ordering logic.
- 5) What are the counts and sums of PRINCIPAL for cases with the statuses 'RESOLVED' and 'UNRESOLVED', grouped by Bucket in the master\_data table? Additionally, what is the overall total for each of these metrics across all buckets? This question effectively captures the intent of the SQL query by inquiring about the aggregation of resolved and unresolved cases, as well as their overall totals.

1. What data is contained in the master\_data table, and what are the total sums of AMOUNT\_OVERDUE, Total\_Amount\_Due, EMI, and PRINCIPAL from this table? This question effectively captures both the intent to view all data and to inquire about specific aggregated financial metrics.

```
select * from master_data;
select sum(AMOUNT_OVERDUE) as SUM_AOD,
sum(Total_Amount_Due) as SUM_TAOD,
sum(EMI) as SUM_EMI,
Sum(PRINCIPAL) as SUM_PRINCIPAL
from master_data;
```



	SUM_AOD	SUM_TAOD	SUM_EMI	SUM_PRINCIPAL
▶	89061819	136139452	7256055	198221624

2. What are the total sums of AMOUNT\_OVERDUE, Total\_Amount\_Due, Principal, and AMOUNT for each Product in the master\_data table? Additionally, what is the overall total for each of these categories across all products? This question effectively captures the essence of the SQL query by inquiring about the financial metrics and their aggregation by product, as well as the overall totals.

```
SELECT
  Product,
  SUM(AMOUNT_OVERDUE) AS Sum_Of_AOD,
  SUM(Total_Amount_Due) AS Sum_Of_TAOD,
  SUM(Principal) AS Sum_Of_Principal,
  SUM(AMOUNT) AS Sum_Of_AMOUNT
FROM
  master_data
GROUP BY Product
UNION ALL SELECT
  'Total' AS Product,
  SUM(AMOUNT_OVERDUE) AS Sum_Of_AOD,
  SUM(Total_Amount_Due) AS Sum_Of_TAOD,
  SUM(Principal) AS Sum_Of_Principal,
  SUM(AMOUNT) AS Sum_Of_AMOUNT
FROM
  master_data
```

Result Grid					
		Filter Rows:		Export:	Wrap Cell Content:
	Product	Sum_Of_AOD	Sum_Of_TAOD	Sum_Of_Principal	Sum_Of_AMOUNT
▶	AL	10831665	21261288	24831710	676311
	PL	56153893	83460373	135067650	8019769
	CB	3354536	5429087	11577241	340909
	TW	18721725	25988704	26745023	847009
	Total	89061819	136139452	198221624	9883998

3. What are the total sums of AMOUNT\_OVERDUE, Total\_Amount\_Due, EMI, PRINCIPAL, and AMOUNT grouped by Bucket in the master\_data table? Additionally, what is the overall total for each of these categories, and how are these results ordered, particularly with respect to the 'Total' bucket and other specific bucket values? This question effectively captures the intent of the SQL query by asking about the aggregation of financial metrics and their ordering.

```
SELECT
  Bucket,
  SUM(AMOUNT_OVERDUE) AS Sum_Of_AOD,
  SUM(Total_Amount_Due) AS Sum_Of_TAOD,
  SUM(EMI) AS Sum_Of_EMI,
  SUM(PRINCIPAL) AS Sum_Of_Principal,
  SUM(AMOUNT) AS Sum_of_Amount
FROM
  master_data
GROUP BY Bucket
UNION ALL SELECT
  'Total' Bucket,
  SUM(AMOUNT_OVERDUE) AS Sum_Of_AOD,
  SUM(Total_Amount_Due) AS Sum_Of_TAOD,
  SUM(EMI) AS Sum_Of_EMI,
  SUM(PRINCIPAL) AS Sum_Of_Principal,
  SUM(AMOUNT) AS Sum_of_Amount
FROM
  master_data
ORDER BY CASE
  WHEN Bucket = 'Total' THEN 2
  WHEN Bucket = 180 THEN 1.5
  ELSE 1
END , Bucket;
```

Result Grid						
		Filter Rows:		Export:	Wrap Cell Content:	
	Bucket	Sum_Of_AOD	Sum_Of_TAOD	Sum_Of_EMI	Sum_Of_Principal	Sum_of_Amount
▶	1	1030549	1276206	1082797	35812602	1038895
	2	1207456	1395575	620699	18674597	826308
	3	1717150	2117571	609251	17596626	868679
	4	104439	168816	34431	313866	30058
	5	242653	303259	58123	1256102	70248
	6	161730	249128	30579	429477	112371
	180	84597842	130628897	4820175	124138354	6937439
	Total	89061819	136139452	7256055	198221624	9883998

4. What are the counts of different NORM\_STATUS categories (NORM, RB, STAB, and UNRESOLVED) grouped by Bucket in the master\_data table, and what is the overall total for each status category? Additionally, how are these results ordered, particularly in relation to the 'Total' bucket and other specific bucket values? This question captures the essence of the SQL query by asking about the data aggregation and ordering logic.

```
select Bucket,
count(case when NORM_STATUS = 'NORM' then Principal end) as Count_Of_Norm,
count(case when NORM_STATUS = 'RB' then Principal end) as Count_Of_RB,
Count(Case when NORM_STATUS = 'STAB' then Principal end) as Count_Of_Stab,
Count(Case when NORM_STATUS = 'UNRESOLVED' then Principal end) as Count_Of_Unresolved
from master_data
group by
Bucket
union all
select
'Total' Bucket,
count(case when NORM_STATUS = 'NORM' then Principal end) as Count_Of_Norm,
count(case when NORM_STATUS = 'RB' then Principal end) as Count_Of_RB,
Count(Case when NORM_STATUS = 'STAB' then Principal end) as Count_Of_Stab,
Count(Case when NORM_STATUS = 'UNRESOLVED' then Principal end) as Count_Of_Unresolved
from master_data
order by
case
when Bucket = 'Total' then 2
when Bucket = 180 then 1.5
else 1
end;
```

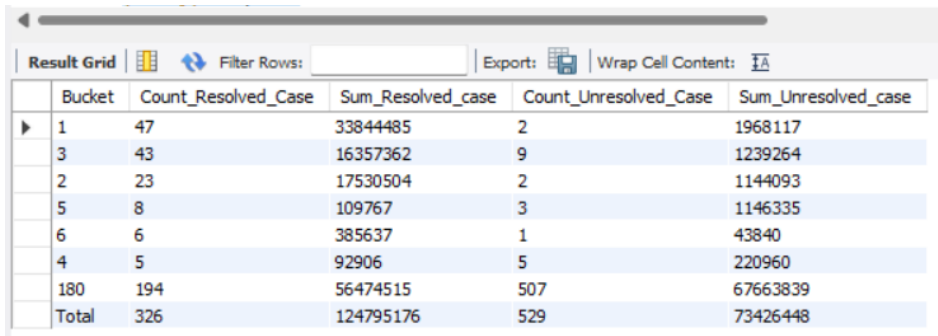
	Bucket	Count_Of_Norm	Count_Of_RB	Count_Of_Stab	Count_Of_Unresolved
▶	1	47	0	0	2
	3	20	0	23	9
	2	7	0	16	2
	5	7	0	1	3
	6	4	0	2	1
	4	3	0	2	5
	180	25	8	161	507
	Total	113	8	205	529

5. What are the counts and sums of PRINCIPAL for cases with the statuses 'RESOLVED' and 'UNRESOLVED', grouped by Bucket in the master\_data table? Additionally, what is the overall total for each of these metrics across all buckets? This question effectively captures the intent of the SQL query by inquiring about the aggregation of resolved and unresolved cases, as well as their overall totals.

```
-- select * from master_data;
select Bucket,
count(case when STATUS_ = 'RESOLVED' then PRINCIPAL end) as Count_Resolved_Case,
sum(case when STATUS_ = 'RESOLVED' then PRINCIPAL end) as Sum_Resolved_case,
Count(Case when STATUS_ = 'UNRESOLVED' then PRINCIPAL end) as Count_Unresolved_Case,
Sum(case when STATUS_ = 'UNRESOLVED' then PRINCIPAL end) as Sum_Unresolved_case
from master_data
group by
Bucket

union all
select
'Total' Bucket,
count(case when STATUS_ = 'RESOLVED' then PRINCIPAL end) as Count_Resolved_Case,
sum(case when STATUS_ = 'RESOLVED' then PRINCIPAL end) as Sum_Resolved_case,
Count(Case when STATUS_ = 'UNRESOLVED' then PRINCIPAL end) as Count_Unresolved_Case,
Sum(case when STATUS_ = 'UNRESOLVED' then PRINCIPAL end) as Sum_Unresolved_case
from master_data

order by
case
when Bucket = 'Total' then 2
when Bucket = 180 then 1.5
else 1
end;
```



	Bucket	Count_Resolved_Case	Sum_Resolved_case	Count_Unresolved_Case	Sum_Unresolved_case
▶	1	47	33844485	2	1968117
	3	43	16357362	9	1239264
	2	23	17530504	2	1144093
	5	8	109767	3	1146335
	6	6	385637	1	43840
	4	5	92906	5	220960
	180	194	56474515	507	67663839
	Total	326	124795176	529	73426448