

## Bank Debit and Credit Dashboard KPI Description and Solutions

```
create table debit_credit(Customer_ID varchar(100) ,
Customer_Name          varchar(100) ,
Account_Number         varchar(100) ,
Transaction_Date        date ,
Transaction_Type        varchar(100) ,
Amount                 Double precision ,
Balance Double precision ,
Description            varchar(100) ,
Branch varchar(100) ,
Transaction_Method     varchar(100) ,
Currency              varchar(100) ,
Bank_Name             varchar(100)
);
```

```
select * from debit_credit;
```

```
select count(Customer_id) from debit_credit;
```

-- 1-Total Credit Amount:

```
select sum(amount) from debit_credit where transaction_type='Credit';
```

-- 2-Total Debit Amount:

```
select sum(amount) from debit_credit where transaction_type='Debit';
```

-- 3-Credit to Debit Ratio:

```
select
```

```
Round(
```

```
(sum(case when transaction_type='Credit' then amount else 0 end)::NUMERIC /
```

```
nullif(sum(case when transaction_type='Debit' then amount else 0 end ) ,0)::NUMERIC ),2)|| ' %' AS
Ratio
```

```
from debit_credit;
```

-- 4-Net Transaction Amount:

```
select sum(case when transaction_type='Credit' Then amount else 0 End)-  
sum(case when transaction_type='Debit' Then amount else 0 End)  
from Debit_credit;
```

-- 5-Account Activity Ratio:

```
select sum(amount)/count(amount) as Transactions  
from debit_credit;
```

-- 6-Transactions per Day/Week/Month:

```
select extract(month from transaction_date) as months,  
extract(dow from transaction_date) as week_from_day,  
Extract(day from transaction_date) as days, count(transaction_date) as Transactions  
from debit_credit group by transaction_date;
```

-- 7-Total Transaction Amount by Branch:

```
select * from debit_credit ;  
select branch,sum(amount) as amount  
from Debit_credit group by branch;
```

-- 8-Transaction Volume by Bank:

```
select bank_name, sum(amount) as amount  
from debit_credit  
group by bank_name;
```

-- 9-Transaction Method Distribution:

```
select transaction_method,count(transaction_method)  
from debit_credit
```

```
group by transaction_method;
```

```
-- 10-Branch Transaction Growth:
```

```
select  branch ,transaction_date ,avg(amount) as amount  
from debit_credit  
group by branch,transaction_date;
```

```
-- 11-High-Risk Transaction Flag:
```

```
select transaction_type,amount, case when transaction_type='Debit' and amount>2000 then 'large  
withdrawal'  
when transaction_type='Credit' and amount>2000 then 'Large deposit'  
else ' average' end as Transaction_flag  
from debit_credit;
```

```
-- 12-Suspicious Transaction Frequency:
```

```
select transaction_date ,transaction_type,amount, case when transaction_type='Debit' and  
amount>2000 then 'large withdrawal'  
when transaction_type='Credit' and amount>2000 then 'Large deposit'  
else ' average' end as Transaction_flag  
from debit_credit;
```