

ASSIGNMENT || SQL_DAY_3

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Aggregate Functions:

1. Find out what is the total LPP(Late Penalty Charges) amount charged for a given period (from to date).

```
select * from LMS_REPAYSCH_DTL_Kushmakar;
```

```
SELECT SUM(PENALTY_CHARGES) as TOTAL_LPP FROM LMS_REPAYSCH_DTL_Kushmakar  
where installment_due_date between '10-MAR-2022' and '10-NOV-23';
```

```
--1. Find out what is the total LPP(Late Penalty Charges) amount charged for a given period (from to date).  
select * from LMS_REPAYSCH_DTL_Kushmakar;  
SELECT SUM(PENALTY_CHARGES) as TOTAL_LPP FROM LMS_REPAYSCH_DTL_Kushmakar where installment_due_date between '10-MAR-2022' and '10-NOV-23';  
--2. For a given loan agreement, fetch the count of EMIs billed, total EMI amount billed, total Principal billed, Total Interest billed, total
```

Script Output x Query Result x
SQL | All Rows Fetched: 1 in 0.054 seconds

TOTAL_LPP
1 0

2. For a given loan agreement, fetch the count of EMIs billed, total EMI amount billed, total Principal billed, Total Interest billed, total Principal paid, total interest paid.

```
SELECT count(AGREEMENT_ID) "EMIs billed ",sum(INSTALLMENT_AMOUNT)"EMI amount  
billed",
```

```
sum(PRINCIPAL_COMPONENT ) "total principal billed",sum(INTEREST_COMPONENT) "total  
interest billed",
```

```
sum(INSTALLMENT_AMOUNT ) "total principal paid",sum(INTEREST_COMPONENT) "total  
interest paid" from LMS_REPAYSCH_DTL_Kushmakar;
```

```
--2. For a given loan agreement, fetch the count of EMIs billed, total EMI amount billed, total Principal billed, Total Interest billed  
SELECT count(AGREEMENT_ID) "EMIs billed ",sum(INSTALLMENT_AMOUNT)"EMI amount billed",  
sum(PRINCIPAL_COMPONENT ) "total principal billed",sum(INTEREST_COMPONENT) "total interest billed",  
sum(INSTALLMENT_AMOUNT ) "total principal paid",sum(INTEREST_COMPONENT) "total interest paid" from LMS_REPAYSCH_DTL_Kushmakar;
```

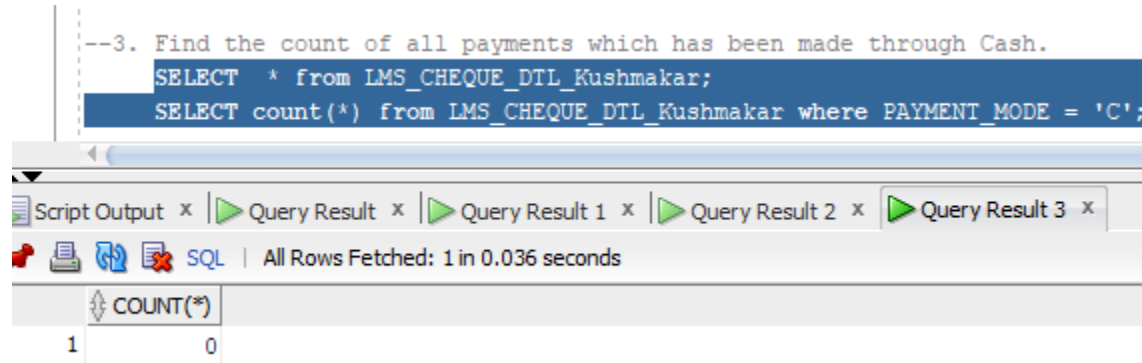
Script Output x Query Result x
SQL | All Rows Fetched: 1 in 0.064 seconds

EMIs billed	EMI amount billed	total principal billed	total interest billed	total principal paid	total interest paid
1	60	1772530.8	617290.07	1155240.17	1772530.8

3. Find the count of all payments which has been made through Cash.

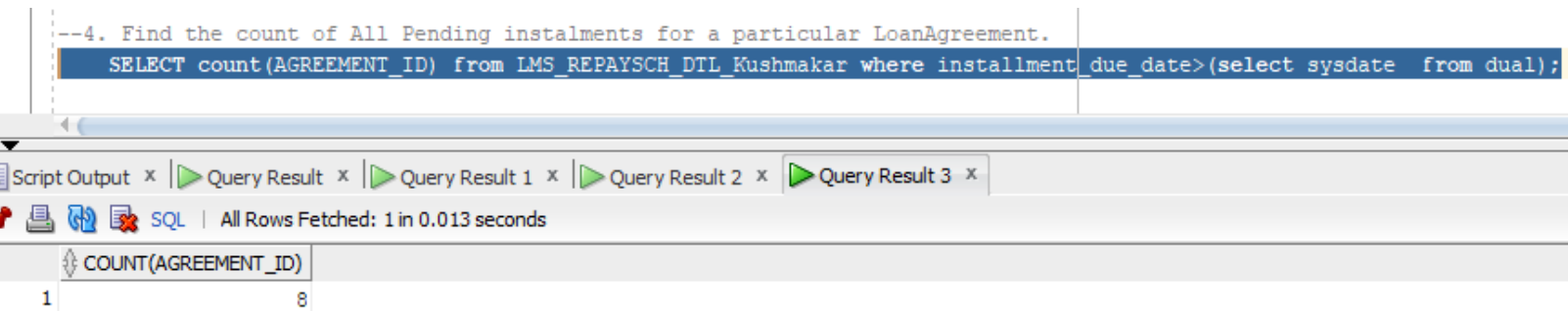
```
SELECT * from LMS_CHEQUE_DTL_Kushmakar;
```

```
SELECT count(*) from LMS_CHEQUE_DTL_Kushmakar where PAYMENT_MODE = 'C';
```



4. Find the count of All Pending instalments for a particular LoanAgreement.

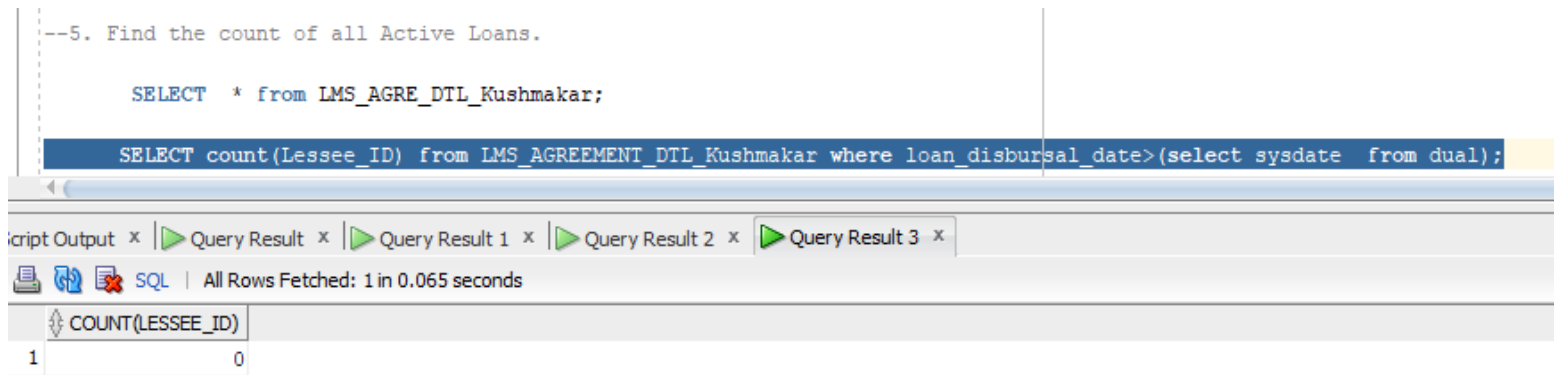
```
SELECT count(AGREEMENT_ID) from LMS_REPAYSCH_DTL_Kushmakar where  
instalment_due_date>(select sysdate "date" from dual);
```



5. Find the count of all Active Loans.

```
SELECT * from LMS_AGRE_DTL_Kushmakar;
```

```
SELECT count(Lessee_ID) from LMS_AGREEMENT_DTL_Kushmakar where  
loan_disbursal_date>(select sysdate from dual);
```



6. Find the sum of all the amounts of the loans being taken by a particular Customer given the customer_id.

```
SELECT sum(A.loan_Amount) from LMS_CUSTOMER_kushmakar C join
LMS_AGREEMENT_DTL_Kushmakar A on C.CUSTOMER_ID = A.Lessee_Id group by A.Lessee_Id;
```

7. Find the sum of all the amounts of the loans being taken by every Customer.

```
SELECT sum(Loan_Amount) from LMS_AGREEMENT_DTL_Kushmakar group by Lessee_Id;
```

--8. Display the minimum and maximum ROI from the LMS_Agreement_DTL table

```
SELECT min(ROI), max(ROI) from LMS_AGREEMENT_DTL_Kushmakar;
```

--9. Find the sum of advice amount being generated in a particular month

```
SELECT * FROM LMS_TXN_ADVICE_DTL_Kushmakar;

SELECT sum(ADVICEAMT) FROM LMS_TXN_ADVICE_DTL_Kushmakar group by
to_char(ADVISEDATE), ('month');
```

--10. Find the avg of total interest billed in a particular month.

Joins:

-- 1. For a given Customer, fetch all the loans being taken by that Customer. Return Customer Name, Product Name, Product Category, Loan Amount, Loan Disbursal Date and Repayment Frequency.

```
select
C.First_Name,P.Product_Name,P.Product_Category,A.Loan_Amount,A.Loan_Disbursal_Date,
A.Repayment_Frequency from LMS_CUSTOMER_Kushmakar C
join LMS_AGREEMENT_Kushmakar A on C.Customer_Id=A.Lessee_Id join
LMS_Product_Kushmakar P on A.Product_Code=P.Product_Code;
```

--2. For a given Loan agreement, fetch all the advices generated to date. Return Agreement ID, Customer Name, Advice ID, Advice date, Payment or Receipt, Advice Amount, Paid to date.

```
SELECT
A.Agreement_ID,C.First_Name,T.Txn_Advice_ID,T.ADVICEDATE,P.Payment_ID,T.ADVIC
EAMT,P.Payment_Date FROM
LMS_AGREEMENT_Kushmakar A
JOIN LMS_CUSTOMER_Kushmakar C ON A.lessee_id=C.Customer_Id
JOIN LMS_TXN_ADVICE_Kushmakar T ON T.CASE_ID=A.Agreement_ID
JOIN LMS_PAYMENT_Kushmakar P ON P.Txn_Advice_ID=T.Txn_Advice_ID
WHERE Agreement_ID='&AGR_ID';
```

--3. For a given receipt cheque Number, please find out the advices which have been settled with it.

```
SELECT * FROM LMS_TXN_ADVICE_Kushmakar T
JOIN
```

```
LMS_PAYMENT_Kushmakar P ON P.Txn_Advice_id=T.TxnAdviceid
```

```
JOIN
```

```
LMS_CHEQUE_Kushmakar C ON P.Cheque_Id=C.Cheque_Id
```

```
WHERE Cheque_Num='&Cheque_Num';
```

--4. Find out how many payments have been made by a customer against a given Agreement ID

```
SELECT COUNT(*) FROM
```

```
LMS_AGREEMENT_Kushmakar A
```

```
JOIN LMS_TXN_ADVICE_Kushmakar T ON a.agreement_id =T.caseid
```

```
JOIN LMS_PAYMENT_Kushmakar P ON t.TxnAdviceid=p.txn_advice_id
```

```
WHERE A.Agreement_ID='&AGR_ID';
```

--5. For a given loan agreement, get the count and total payments amount received by payment mode (Cheque, Cash...).

```
SELECT COUNT(*),SUM(C.Cheque_Amount) FROM
```

```
LMS_AGREEMENT_Kushmakar A
```

```
JOIN LMS_TXN_ADVICE_Kushmakar T ON a.agreement_id =t.caseid
```

```
JOIN Lms_payment_Kushmakar P ON t.txnadviceid=p.txn_advice_id
```

```
JOIN LMS_CHEQUE_Kushmakar C ON p.cheque_id=c.cheque_id
```

```
WHERE A.Agreement_ID='&AGR_ID'
```

```
AND c.Payment_Mode='C' OR c.Payment_Mode='Q';
```

--6. For a given loan, get the total count and amount of payments received from the customer that have bounced.

```
SELECT COUNT(*),SUM(C.Cheque_Amount) FROM
```

```
LMS_AGREEMENT_Kushmakar A
JOIN LMS_TXN_ADVICE_Kushmakar T ON a.agreement_id =t.caseid
JOIN lms_payment_Kushmakar P ON t.txnadvicid=p.txn_advice_id
JOIN LMS_CHEQUE_Kushmakar C ON p.cheque_id=c.cheque_id
WHERE A.Agreement_ID='&AGR_ID'
AND c.status='B';
```

--7. Get the count and total payments amount received by payment mode (Cheque, Cash...) for all the Loan Agreements.

```
SELECT COUNT(*),SUM(C.Cheque_Amount) FROM
LMS_AGREEMENT_Kushmakar A
JOIN LMS_TXN_ADVICE_Kushmakar T ON a.agreement_id =t.caseid
JOIN lms_payment_Kushmakar P ON t.txnadvicid=p.txn_advice_id
JOIN LMS_CHEQUE_Kushmakar C ON p.cheque_id=c.cheque_id
WHERE c.Payment_Mode='C' OR c.Payment_Mode='Q';
```

--8. For a given Customer find out the total number of installments which had not been paid for all the loans being taken by that Customer.

--9. For a given Customer, find out how many loans the Customer has taken are Asset based. Return the Customer Name, Product Name and Loan Amount.

--10. Get the total Installment amount billed to date.

```
Select SUM(installment_amount) from lms_repaySCH_Kushmakar r
where r.installment_due_date <= '&date';
```

--11. Write a query to find out those customers who have paid all the instalments on time.

```
SELECT c.customer_id,
       c.first_name,
       c.last_name,
       a.lessee_id
FROM LMS_CUSTOMER_Kushmakar c
JOIN LMS_AGREEMENT_Kushmakar a ON C.Customer_Id=a.lessee_id
JOIN LMS_REPAYSCH_Kushmakar R ON R.Agreement_ID=A.Agreement_ID
JOIN LMS_TXN_ADVICE_Kushmakar T ON A.Agreement_ID=T.CasId
JOIN LMS_PAYMENT_Kushmakar P ON T.TxnAdviceId=P.Txn_Advice_id
WHERE P.Payment_Date <=R.Installment_Due_Date;
```

--12. For a given loan agreement id, find out the details of the product. Return Product name, max_tenure, min_tenure, asset based, secured/Unsecured loan.

```
SELECT p.Product_Name,p.Max_Tenure,p.Min_Tenure,pc.Asset_Based,pc.secured_loan
from LMS_PRODUCT_Kushmakar p
join LMS_AGREEMENT_Kushmakar a on p.product_code = a.product_code
join LMS_PRODUCT_CATEGORY_Kushmakar pc on p.Product_Category=pc.Category_ID
where a.agreement_id= '&agreement_id';
```

--13. Given a PropInstID, find out the loan agreement details of that PropInstID.

```
select * from LMS_AGREEMENT_Kushmakar ag join LMS_REPAYSCH_Kushmakar r on  
ag.Agreement_ID  
=r.Agreement_ID where r.PropInstID='&PropInstID';
```

--14. Display a report of all the installments of a particular loan agreement id. Return loan amount, installment amount, principal component, interest component.

```
select Loan_Amount,Installment_Amount,Prinicipal_Component,Interest_Component from  
LMS_AGREEMENT_Kushmakar ag join LMS_REPAYSCH_Kushmakar r on  
ag.Agreement_ID=r.Agreement_ID where  
ag.Agreement_ID= '&Agreement_ID';
```

--15. Write a query to find out who all customers have taken the home loan.

```
Select * from LMS_CUSTOMER_Kushmakar c  
join LMS_AGREEMENT_Kushmakar a  
on c.customer_id=a.lessee_id  
where a.agreement_id like '%Home%';
```