- 6. Advanced Analysis:
- 1. Create a view of active loans with payments greater than \$1000:

```
create view Active_Loan_Payments as select c.customer_id, l.loan_id, first_name, last_name, loan_amount, payment_amount from customers as c join loans as l on c.customer_id = l.customer_id join loan_payments as p on l.loan_id = p.loan_id where p.payment_amount > 1000;
```

Select * from Active_Loan_Payments;



2. Create an index on `transaction date` in the `transactions` table for performance optimization:

create index idx_transaction_date on transactions (transaction_date);



check for the indexes on your transactions table:-

select name as index_name, object_name(object_id) as table_name, type_desc as index_type
from sys.indexes
where object_name(object_id) = 'transactions';

