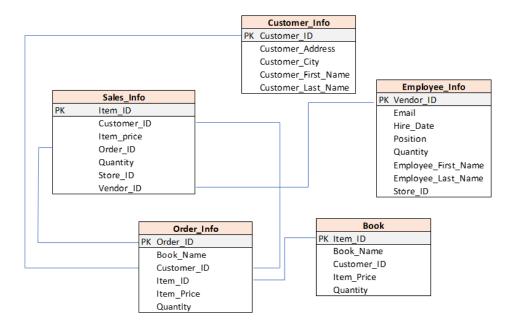
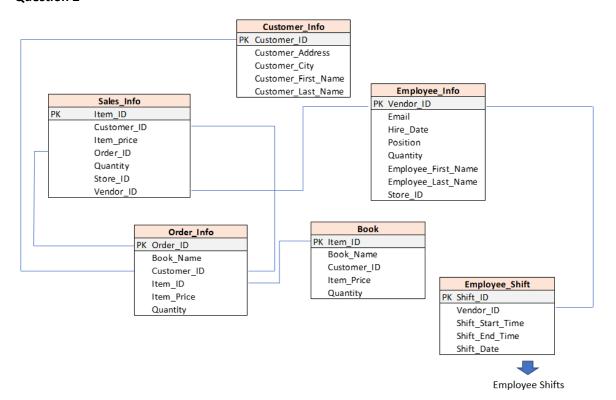
## Omar Khan - Assignment 1

### Question 1

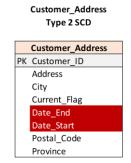


## Question 2



#### Question 3





### Summary

Type 1 SCD maintains only the current address, overwriting changes

Type 2 SCD retains historical addresses, creating a new record for each change while keeping previous records intact

#### Question 4

- 1. The AdventureWorks OLTP schema encompasses tables that represent various aspects of the company, making it suitable for larger databases and scalable for bigger enterprises. This schema facilitates data distribution to achieve a range of objectives, such as cost control, inventory management, and adherence to human resource policies
- 2. Additionally, the AdventureWorks schema includes details about the storage of payment methods, which is a significant responsibility for the organization. Safeguarding this sensitive information necessitates careful measures, including robust encryption, compliance with data protection regulations, and regular audits

# Would you change anything in yours?

I would like to enhance my ERD by incorporating a clear division by functional areas. This organization would make the diagram more illustrative for users, enabling them to easily navigate sections of the database, such as sales and customer history data. By adopting this approach, we can improve efficiency when working with the database, as it will make relationships and data flows more apparent.