

Employee Table

Column Name	Data Type	Description
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employee_id	INT (PK)	Unique identifier for employee
first_name	VARCHAR	Employee's first name
last_name	VARCHAR	Employee's last name
email	VARCHAR	Contact email
phone_number	VARCHAR	Contact number
role	VARCHAR	Position

Customer Table

Column Name	Data Type	Description
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customer_id	INT (PK)	Unique identifier for customer
first_name	VARCHAR	Customer's first name
last_name	VARCHAR	Customer's last name
email	VARCHAR	Contact email
phone_number	VARCHAR	Contact number

Book Table

Column Name	Data Type	Description
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book_id	INT (PK)	Unique identifier for book
title	VARCHAR	Book title
author	VARCHAR	Author of the book
genre	VARCHAR	Genre of the book
price	DECIMAL	Selling price
stock_quantity	INT	Number of copies in stock
supplier_id	INT (FK)	Linked to the supplier of the book

Supplier Table

Column Name	Data Type	Description
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supplier_id	INT (PK)	Unique identifier for supplier
supplier_name	VARCHAR	Supplier name
contact_name	VARCHAR	Representative's name
phone_number	VARCHAR	Contact number
email	VARCHAR	Contact email

Sales Table

Column Name	Data Type	Description
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sale_id	INT (PK)	Unique identifier for sale
customer_id	INT (FK)	Customer who made the purchase
employee_id	INT (FK)	Employee who processed the sale
sale_date	DATE	Date of the transaction
total_amount	DECIMAL	Total amount of the sale

Sales Details Table

Column Name	Data Type	Description
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sale_id	INT (FK)	Linked to Sales table
book_id	INT (FK)	Linked to Book table
quantity_sold	INT	Number of copies sold
price_per_unit	DECIMAL	Selling price per unit

Order Table

Column Name	Data Type	Description
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order_id	INT (PK)	Unique identifier for order
employee_id	INT (FK)	Employee who placed the order
supplier_id	INT (FK)	Supplier fulfilling the order
order_date	DATE	Date of the order
total_cost	DECIMAL	Total cost of the order

Order Details Table

Column Name	Data Type	Description
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order_id	INT (FK)	Linked to Order table
book_id	INT (FK)	Linked to Book table
quantity_ordered	INT	Number of copies ordered
cost_per_unit	DECIMAL	Cost per unit

Shifts Table

Column Name	Data Type	Description
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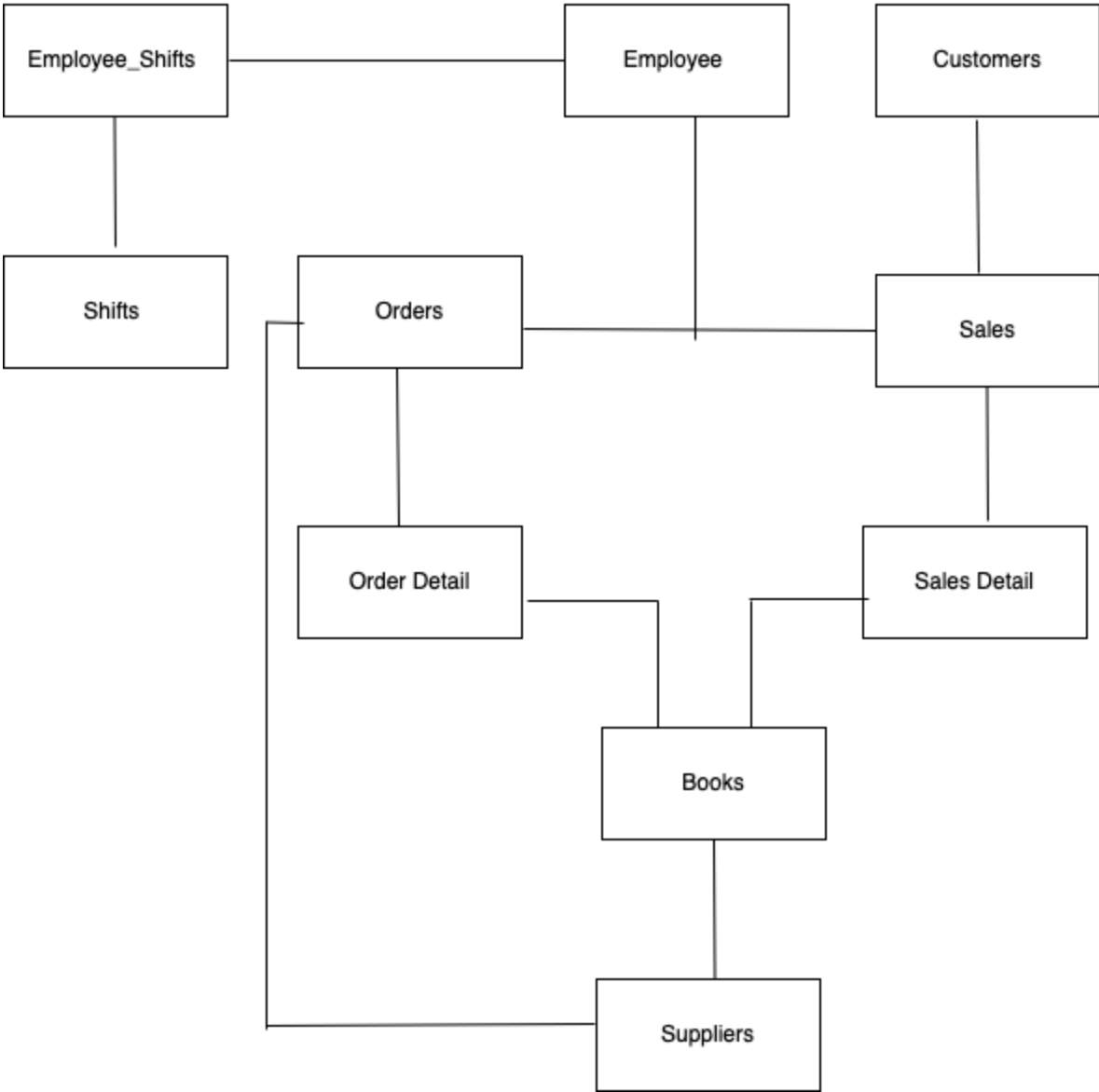
shift_id	INT (PK)	Unique identifier for each shift.
shift_name	VARCHAR(50)	Name of the shift (e.g., Morning, Evening).
start_time	TIME	Start time of the shift.
end_time	TIME	End time of the shift.

Employee_Shifts Table

Column Name	Data Type	Description
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employee_shift_id	INT (PK)	Unique identifier for the assignment.
employee_id	INT (FK)	References employee_id in Employee.
shift_id	INT (FK)	References shift_id in Shift.
shift_date	DATE	The date on which the employee works the shift.

Conceptual Model



Logical model

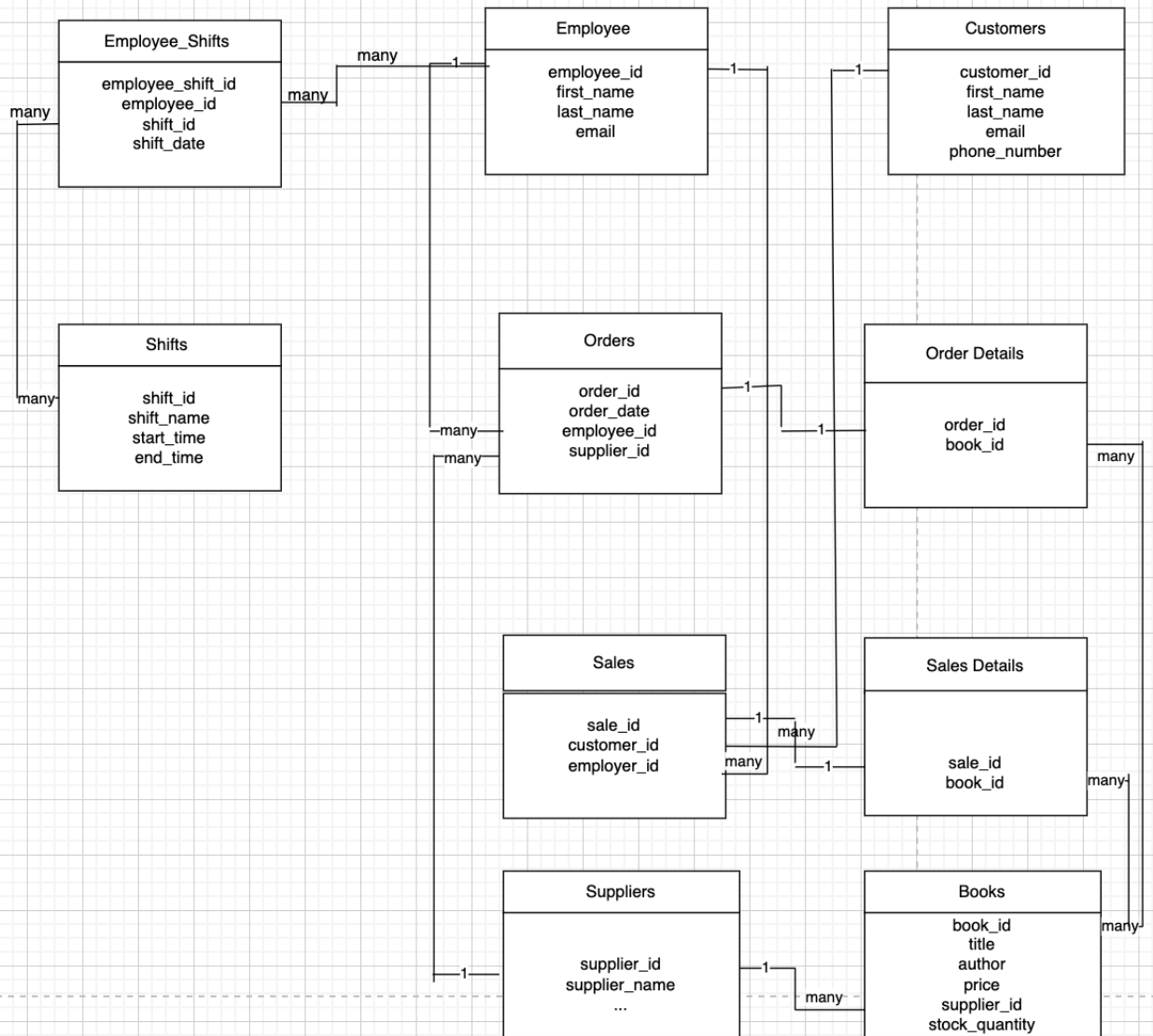


TABLE ARCHITECTURE EXAMPLE

TYPE 1: CUSTOMER_ADDRESS

Column Name	Data Type	Description
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customer_id	INT (PK, FK)	Unique identifier for the customer.
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address	VARCHAR(255)	Customer's current address.
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city	VARCHAR(100)	City of the customer.
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state	VARCHAR(100)	State of the customer.
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postal_code	VARCHAR(20)	Postal code of the customer.
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country	VARCHAR(50)	Country of the customer.
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TYPE 2: CUSTOMER_ADDRESS

Column Name	Data Type	Description
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customer_address_id	INT (PK)	Unique identifier for each address record.
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customer_id	INT (FK)	Unique identifier for the customer.
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address	VARCHAR(255)	Customer's address.
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city	VARCHAR(100)	City of the customer.
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state	VARCHAR(100)	State of the customer.
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postal_code	VARCHAR(20)	Postal code of the customer.
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country	VARCHAR(50)	Country of the customer.
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start_date	DATE	Date when the address became effective.
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end_date	DATE (NULL)	Date when the address was replaced (NULL if current).
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