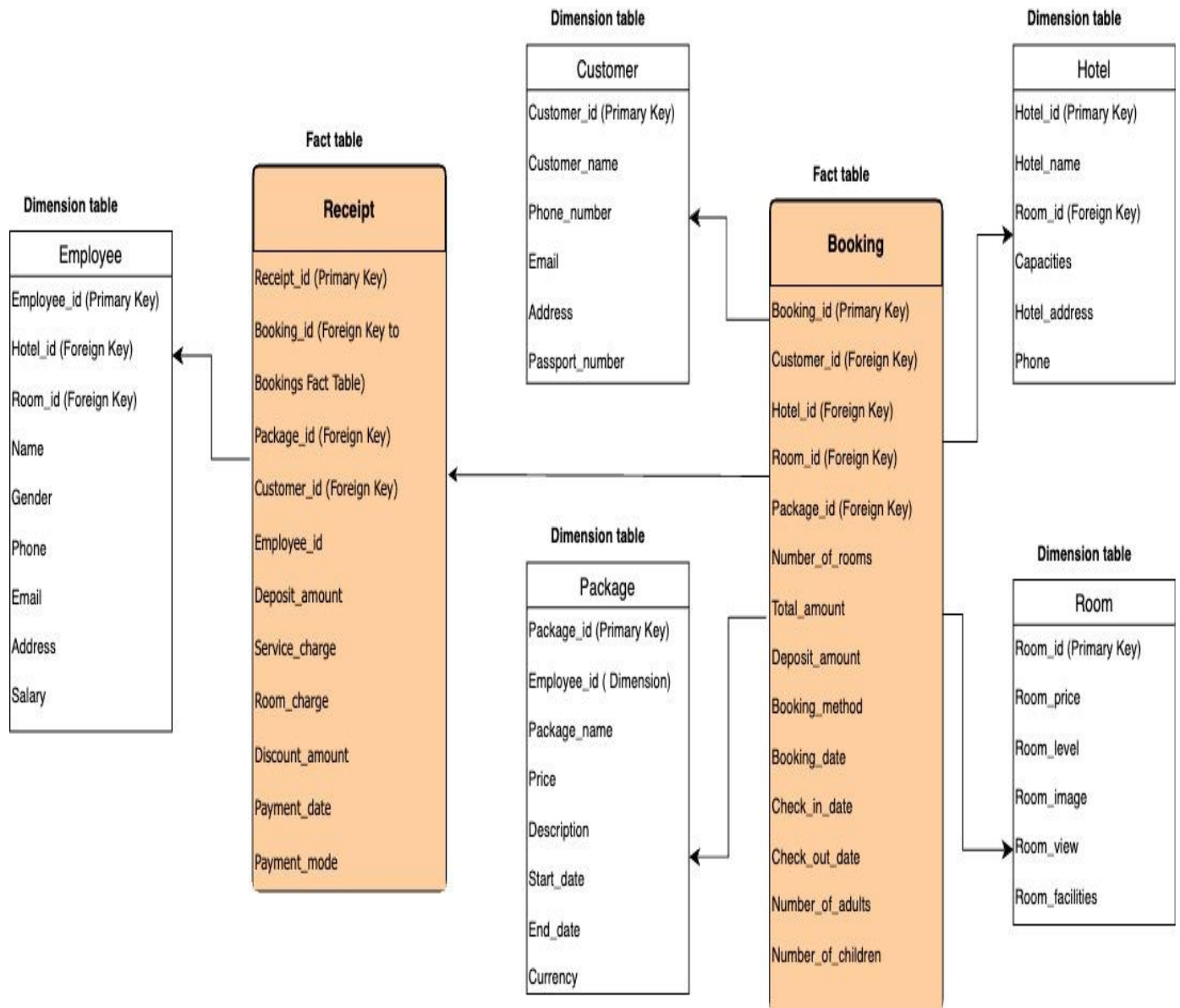


Group 2 Member

1. Doan Thi An
2. Pyae Phyo Zaw
3. Linn Thit Win

Star Schema



Bookings Fact Table:

Booking_id (Primary Key)
Customer_id (Foreign Key to Customers Dimension)
Hotel_id (Foreign Key to Hotel Dimension)
Room_id (Foreign Key to Room Dimension)
Package_id (Foreign Key to Package Dimension)
Number_of_rooms
Total_amount
Deposit_amount
Booking_method
Booking_date
Check_in_date
Check_out_date
Number_of_adults
Number_of_children

Customers Dimension:

Customer_id (Primary Key)
Customer_name
Phone_number
Email
Address
Passport_number

Package Dimension:

Package_id (Primary Key)
Package_name
Price
Description
Start_date
End_date
Employee_id (Foreign Key to Employee Dimension)
Currency

Employee Dimension:

Employee_id (Primary Key)
Hotel_id (Foreign Key to Hotel Dimension)
Room_id (Foreign Key to Room Dimension)
Name
Gender
Phone
Email
Address
Salary

Hotel Dimension:

Hotel_id (Primary Key)
Hotel_name
Room_id (Foreign Key to Room Dimension)
Capacities
Hotel_address
Phone

Room Dimension:

Room_id (Primary Key)
Room_price
Room_level
Room_image
Room_view
Room_facilities

Receipts Fact Table:

Receipt_id (**Primary Key**)
Booking_id (Foreign Key to Bookings Fact Table)
Package_id (Foreign Key to Package Dimension)
Customer_id (Foreign Key to Customers Dimension)
Employee_id
Deposit_amount
Service_charge
Room_charge
Discount_amount
Payment_date
Payment_mode

Analysis Queries:

The designed data warehouse schema supports a range of analysis queries, including:

What are the total bookings and revenue per hotel?

Example Query: Retrieve the total number of bookings and revenue generated by each hotel.

Which packages have the highest sales revenue?

Example Query: Identify the top-selling packages based on revenue generated.

How does customer booking behaviour vary across different hotels?

Example Query: Compare the number of bookings and average booking amounts for different hotels.

What are the most popular rooms in each hotel?

Example Query: List the top-booked rooms in each hotel based on customer booking.

What is the overall revenue breakdown by services offered?

Example Query: Analyze the revenue contribution of different services like accommodation, conference rooms, event organizing, etc.