

**UNIVERSITI TUNKU ABDUL RAHMAN**

**Faculty of Information and Communication Technology (FICT)**

**UCCD2303 DATABASE TECHNOLOGY /**

**UCCD2203 DATABASE SYSTEMS**

**Group Assignment Mark sheet**

January 2024 Trimester

|  |  |
| --- | --- |
| Group Number (e.g. G999): | G050 |
| Group leader to provide the OneDrive folder hyperlink (editor mode) which contains the zip file and a group presentation video in mp4 format: | [UCCD2303\_G50\_Folder](https://1drv.ms/f/s!AlYnJ4RcV9icgSywIwkBGwC6VBMn?e=DdSLBd)  https://1drv.ms/f/s!Al  YnJ4RcV9icgSywIwkBGwC  6VBMn?e=DdSLBd |
| Group leader name: | Tan Kai Jun |
| Group leader email address: | kaijuntan423@1utar.my |
| Submission date (dd-Mon-yy): | 16-April-24 |

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| --- | --- | --- | --- | --- |
| No. | Name  (in ascending order)  Group leader with \* | Student ID  (e.g. 2299999) | Programme | Signature |
| 1 | Tan Kai Jun | 2206494 | CS |  |
| 2 | Ho Kah Mun | 2207230 | CS |  |
| 3 | Loh Wei Jia | 2207414 | CS |  |
| 4 | Ong Boon Siang | 2206931 | CS |  |
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| **Assignment Mark Sheet** | |  |  |
| **PART 1: (Group Assessment – 50 marls)** | | Allocated marks | **Given Marks** |
| **1.** | **Scope of Work (5 marks)**  Analyse requirements study (briefly explain the requirements/ office / business rules in the system).  PLEASE INCLUDE ANY ASSUMPTIONS THAT YOU MAKE. | 5 |  |
| **2.** | **ER model** (**10 marks**)  You are required to design an ER diagram for the case study given, identify entities, identify relationships, identify associate attribute and determine keys.  Check your ERD with the transaction requirements stated in the case. | 10 |  |
| **3.** | **Redesign and EER** (**10 marks**)  Redesign your ER diagram with the new requirements and extending the ERD to EER model, if any. | 10 |  |
| **4.** | **Data Dictionary** (**10 marks**)  Based on EER diagram that you created in part 3, create a data dictionary for the solution. (Make sure the data types (Oracle) selected are appropriate) | 10 |  |
| **5.** | **Tables and records** (**5 marks**)  Create all relations in ERD and insert the necessary records (Minimum 5 record for each table) | 5 |  |
| **6.** | **Script** (**10 marks**)  You are required to submit the SQL schema script with proper codes. Should include Integrity and referential integrity constraints.  **Softcopy:** *Include the scripts in the submission* | 10 |  |

**PART 2: (Individual Assessment – 50 marks)**

(Fill in all your group members name and ID according to the same sequence on the cover page)

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| --- | --- | --- | --- | --- | --- |
| Member |  | 1 | 2 | 3 | 4 |
| **Student Name: (to fill)** |  | **Tan Kai Jun** | **Ho Kah Mun** | **Loh Wei Jia** | **Ong Boon Siang** |
| **Student ID; (to fill)** |  | **2206494** | **2207230** | **2207414** | **2206931** |
| Two Queries (10 marks) | 10 |  |  |  |  |
| Two Stored Procedure (10 marks) | 10 |  |  |  |  |
| Two Functions (10 marks) | 10 |  |  |  |  |
| Presentation (20 marks) | 20 |  |  |  |  |
| Total Individual Assessment (50 marks) |  |  |  |  |  |
| Group Assessment (50 marls) |  |  |  |  |  |
| **Total marks (100 marks)** |  |  |  |  |  |

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| --- |
| **Presentation**   1. Group members are required to present a working database system, queries, stored procedures, and functions. 2. Every group has to present their assignment work and explain each group member contribution towards the completion of the assignment. 3. Group member must present his/her work as individual for 3-5 minutes each person and compiled by the group leader as a single presentation video. 4. Each member record individually then group leader compiles as a single group video. 5. Group leader to compile one group presentation video to be uploaded into OneDrive and provide the video hyperlink. 6. For Part 2 answers**:**  * Indicate the operations performed and include an explanations on how the user can use the corresponding SQL commands. * No duplication or similar answers should be listed among the group members. |

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| No. | Name  (in ascending order)  Group leader with \* | A short description of members’ contributions |
| 1. | Tan Kai Jun | Part 1\_6 Script, combine video and file |
| 2. | Ho Kah Mun | Part1\_3+4 Redesign and EER + Data Dictionary |
| 3. | Loh Wei Jia | Part1\_1+2 Scope of Work + ER model |
| 4. | Ong Boon Siang | Part 1\_5 Table of records |
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| Pages | Content |
|  |  |
| 1 | Cover Page |
| 2 | PART1 MarkingScheme |
| 2-3 | PART2 MarkingScheme |
| 3 | Contributions Table |
| 4 | Table of Contents |
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**Table of Contents**

**1. Scope of Work**

**System Requirements**

The Food Collection and Reservation Management System for The Big Dipper Theme Park encompasses several important and essential key functionalities which help to optimize the operations of food and beverage within the theme park. These key functionalities usually include processing order and collection, food reservation, inventory tracking and integration with existing system. These modules are important for streamlining the operation of food and beverage service and at the same time enhancing the theme park’s customer experience.

First and foremost, the ordering process and collection module makes it possible in handling all of the food orders from the customers that visits the parks. This functionality helps to ensure that every meal orders are accurately entered to the system, allowing the employees to efficiently prepare the orders and delivered in the estimated time. Not only that, but this functionality also involving a billing and payment process which making it possible for the customers to make and complete the payment within the system itself easily and conveniently.

In addition, the food reservations module facilitates the booking of the dining reservations by the customers of the theme park. With the helps of this feature, it allows the customers to reserve food at the restaurant in the theme park and pick up at the desired timeslot, ensuring that the customers can have a joyful and enjoyment dining without waiting for a whole long time. The module will also include with the feature of handling cancelation, modifications and customer preferences, providing customers a personalized dining experience.

Furthermore, the module for inventory tracking is an important functionality for the employees in the restaurant and it plays a crucial role in managing the food inventory levels within the theme park’s restaurants. It enables the employees to keep an eye on the inventory levels in the real time, watch stock movement and generate reports on inventory usage and replenishment requirements. This module can help to minimize the waste of foods, cut the expenses of the restaurant and guarantee that the theme park’s restaurants are properly stocked to achieve the customers’ demands by optimizing inventory management process.

Last but not least, integration with the existing system is important and crucial to guarantee a smooth communication and exchange of data between the food collection and reservation system and other available park system. This type of integration enables interoperability across various park system such as visitor management, inventory management and point-of-sale systems, promotes an efficient operations and data flow across the theme park.

In a nutshell, the Food Collection and Reservation Management System at The Big Dipper theme park is intended to enhance the food and beverage service operations, enhancing the satisfaction of the customers and optimizing the inventory management processes. This system helps to improve the user experience of the customer and at the same time utilize the working experience of the employees.

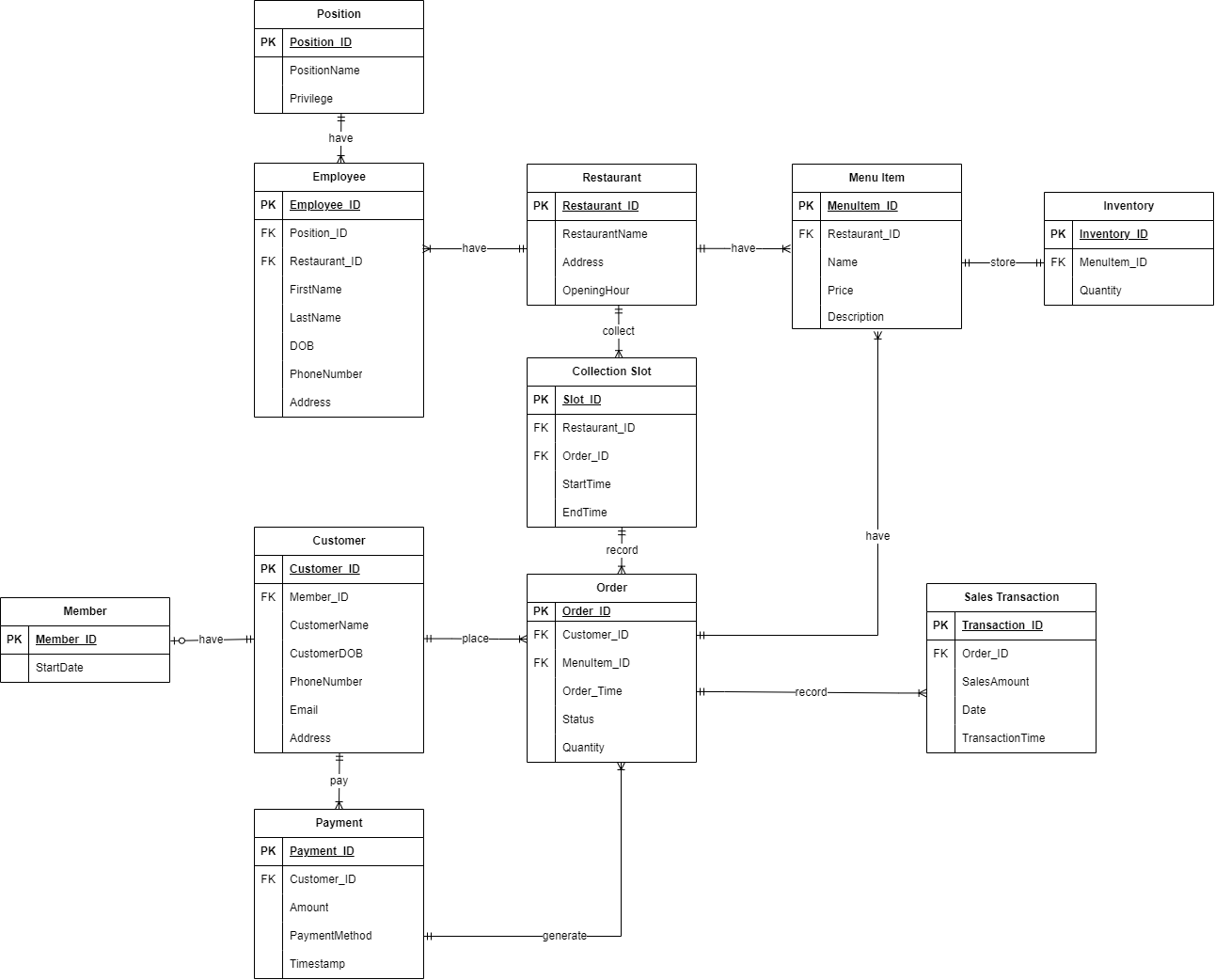
**Business Rules**

1. Each customer can either place one or multiple food orders as they wish.
2. Each restaurant can have one or multiple menu items.
3. Each order can contain either one or multiple menu items.
4. Each restaurant only can have one and only one manager to manage the restaurant.
5. There is one or many employees in each restaurant branch and they are managed by one manager.
6. Each restaurant can have one or multiple food collection timeslots as they decide.
7. Each collection timeslot can have one or multiple food orders.
8. There can be one and only one unique ID for per inventory.
9. The purchase is not refundable once the payment is made successful and it is only allowed to exchange if the food is currently unavailable or wrong foods are delivered.
10. The category of the login privilege will be based on the user’s level or position.

**Assumption**

1. The user interface of the employees that used to login to the system is literally differ from that used by the manager.
2. Only the manager can view and make changes the information of the employee.
3. Only the manager can update or renew the menu items of the restaurant.
4. The employees are allowed to modify the availability of the foods of the restaurants.
5. The employees are allowed to either accept or cancel the customers’ orders depend on the availability of the inventory.
6. Employees are not permitted to purchase any new inventory without the approval from the manager.
7. Employees must routinely check the quantity and the state of the inventories.
8. The inventory must update regularly once the inventory has been completely used and sold out.
9. Only the employees are accessible to the details of each inventory.

**2. ER model**



**3. Redesign and EER**

**A diagram of a flowchart

Description automatically generated**

**4. Data Dictionary**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table Name: Customer** | | | | | | | | |
| **Field Name** | **Data Type** | **Field Size** | **References** | **Not Null/Null** | **Default Value** | **Rules** | **Descriptions** | **Examples** |
| Customer\_ID (PK) | CHAR | 10 |  | Not Null |  |  | The unique ID given to the customer | ABC1105890 |
| CustomerName | VARCHAR2 | 40 |  | Not Null |  |  | The name of the customer | Alan Chen |
| CustomerDOB | DATE | 10 |  | Not Null |  | Format: DD-MM-YYYY | The customer’s date of birth | 18-08-2000 |
| PhoneNumber | VARCHAR2 | 12 |  | Not Null |  |  | Phone number of customer | 012-4562300 |
| Email | VARCHAR2 | 30 |  | Not Null |  |  | Email of customer | alanchen00@gmail.com |
| Address | VARCHAR2 | 100 |  | Not Null |  |  | Address of customer | 31000, Ampang Baru, Ipoh |
| Member\_ID (FK) | CHAR | 8 | Member |  |  |  | Member ID of customer that has membership | M5432102 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table Name: Member** | | | | | | | | |
| **Field Name** | **Data Type** | **Field Size** | **References** | **Not Null/Null** | **Default Value** | **Rules** | **Descriptions** | **Examples** |
| Member\_ID (PK) | CHAR | 8 |  | Not Null |  |  | Member ID of customer that has membership | M5432102 |
| StartDate | DATE | 10 |  | Not Null |  | Format:  DD-MM-YYYY | The date when the customer starts to join membership | 01-4-2023 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table Name: Order** | | | | | | | | |
| **Field Name** | **Data Type** | **Field Size** | **References** | **Not Null/Null** | **Default Value** | **Rules** | **Descriptions** | **Examples** |
| Order\_ID (PK) | CHAR | 6 |  | Not Null |  |  | The unique ID given to the order made by customer | OD1560 |
| Customer\_ID  (FK) | CHAR | 10 | Customer | Not Null |  |  | The unique ID given to the customer | ABC1105890 |
| MenuItem\_ID  (FK) | INT | 5 | Menu Item | Not Null |  | Must be an integer | The unique ID given to the food item in the menu | 153 |
| Order\_Time | TIMESTAMP | 20 |  | Not Null |  | Format:  DD-MM-YYYY HH:MM:SS | The time when the order is completed | 05-04-2024 12:18:25 |
| Status | VARCHAR2 | 50 |  | Not Null |  |  | The status of the order | In the progress |
| Quantity | INT | 5 |  | Not Null |  | Must be an integer | The quantity of the food item order | 2 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table Name: Payment** | | | | | | | | |
| **Field Name** | **Data Type** | **Field Size** | **References** | **Not Null/Null** | **Default Value** | **Rules** | **Descriptions** | **Examples** |
| Payment\_ID (PK) | CHAR | 6 |  | Not Null |  |  | The unique ID given to the payment | P11042 |
| Customer\_ID  (FK) | CHAR | 10 | Customer | Not Null |  |  | The unique ID given to the customer | ABC1105890 |
| Amount | DECIMAL | (10, 2)  Number of digits: 10  Decimal point: 2 |  | Not Null |  |  | The total amount of the payment | 100.20 |
| PaymentMethod | VARCHAR2 | 50 |  | Not Null |  |  | The payment method used by the customer to pay the order | E-wallet |
| Timestamp | TIMESTAMP | 20 |  | Not Null |  | Format:  DD-MM-YYYY  HH:MM: SS | The timestamp when customer complete the payment | 05-04-2024  12:23:25 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table Name: Sales Transaction** | | | | | | | | |
| **Field Name** | **Data Type** | **Field Size** | **References** | **Not Null/Null** | **Default Value** | **Rules** | **Descriptions** | **Examples** |
| Transaction\_ID (PK) | CHAR | 4 |  | Not Null |  |  | Each transaction gets the unique ID | T888 |
| Order\_ID (FK) | CHAR | 6 | Order | Not Null |  |  | The unique ID given to the order made by customer | OD1560 |
| SalesAmount | DECIMAL | (10, 2)  Number of digits: 10  Decimal point: 2 |  | Not Null |  |  | The sales amount of the order | 212.90 |
| Date | DATE | 10 |  | Not Null |  | Format:  DD-MM-YYYY | The date of the transaction | 05-04-2024 |
| TransactionTime | TIMESTAMP | 10 |  | Not Null |  | Format:  HH:MM:SS | The time of the transaction | 12:24:25 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table Name: Restaurant** | | | | | | | | |
| **Field Name** | **Data Type** | **Field Size** | **References** | **Not Null/Null** | **Default Value** | **Rules** | **Descriptions** | **Examples** |
| Restaurant\_ID (PK) | CHAR | 4 |  | Not Null |  |  | The unique ID given to the restaurant | R007 |
| RestaurantName | VARCHAR2 | 50 |  | Not Null |  |  | The name of the restaurant | Restaurant Big Dipper |
| Address | VARCHAR2 | 100 |  | Not Null |  |  | The address of the restaurant | 10502, GeorgeTown, Pulau Pinang |
| OpeningHour | VARCHAR2 | 50 |  | Not Null |  |  | The opening hour of the restaurant | 10:00 AM - 10:00 PM |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table Name: Menu Item** | | | | | | | | |
| **Field Name** | **Data Type** | **Field Size** | **References** | **Not Null/Null** | **Default Value** | **Rules** | **Descriptions** | **Examples** |
| MenuItem\_ID (PK) | INT | 5 |  | Not Null |  | Must be an integer | Each food item in the menu is given a unique ID | 153 |
| Restaurant\_ID  (FK) | CHAR | 4 | Restaurant | Not Null |  |  | The unique ID given to the restaurant | R007 |
| Name | VARCHAR2 | 50 |  | Not Null |  |  | The name of the food item | Tom Yam Noodle Soup |
| Price | DECIMAL | (4, 2)  Number of digits: 4  Decimal point: 2 |  | Not Null |  |  | The price of the food item in the menu | 13.90 |
| Description | VARCHAR2 | 200 |  | Not Null |  |  | The description about the food item | Spicy and sour soup with shrimps, vegetables, and noodle |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table Name: Inventory** | | | | | | | | |
| **Field Name** | **Data Type** | **Field Size** | **References** | **Not Null/Null** | **Default Value** | **Rules** | **Descriptions** | **Examples** |
| Inventory\_ID  (PK) | CHAR | 4 |  | Not Null |  |  | The unique ID of the inventory | I331 |
| MenuItem\_ID (FK) | INT | 5 | Menu Item | Not Null |  | Must be an integer | Each food item in the menu is given a unique ID | 153 |
| Quantity | INT | 4 |  | Not Null |  | Must be an integer | The quantity of the inventory | 10 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table Name: Collection Slot** | | | | | | | | |
| **Field Name** | **Data Type** | **Field Size** | **References** | **Not Null/Null** | **Default Value** | **Rules** | **Descriptions** | **Examples** |
| Slot\_ID (PK) | CHAR | 4 |  | Not Null |  |  | The unique ID of the collection slot | S088 |
| Restaurant\_ID (FK) | CHAR | 4 | Restaurant | Not Null |  |  | The unique ID given to the restaurant | R007 |
| Order\_ID (FK) | CHAR | 6 | Order | Not Null |  |  | The unique ID given to the order made by customer | OD1560 |
| StartTime | TIMESTAMP | 10 |  | Not Null |  | Format:  HH:MM:SS | The start time of the collection slot | 11:00:00 |
| EndTime | TIMESTAMP | 10 |  | Not Null |  | Format:  HH:MM:SS | The end time of the collection slot | 11:30:00 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table Name: Employee** | | | | | | | | |
| **Field Name** | **Data Type** | **Field Size** | **References** | **Not Null/Null** | **Default Value** | **Rules** | **Descriptions** | **Examples** |
| Employee\_ID (PK) | CHAR | 5 |  | Not Null |  |  | The unique ID given to the employee | E1101 |
| Restaurant\_ID (FK) | CHAR | 4 | Restaurant | Not Null |  |  | The unique ID of the restaurant | R007 |
| Position\_ID (FK) | CHAR | 4 | Position | Not Null |  |  | The unique ID of the employee’s position | P033 |
| FirstName | VARCHAR2 | 30 |  | Not Null |  |  | The first name of the employee | Mandy |
| LastName | VARCHAR2 | 30 |  | Not Null |  |  | The last name of the employee | Lim |
| DOB | DATE | 10 |  | Not Null |  | Format:  DD-MM-YYYY | Date of Birth | 05-05-1990 |
| PhoneNumber | VARCHAR2 | 12 |  | Not Null |  |  | Phone number of the employee | 011-09012320 |
| Address | VARCHAR2 | 100 |  | Not Null |  |  | The address of the employee | 88, Jalan Perdana 15, Taman Perdana ,30000 Ipoh,Perak |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table Name: Position** | | | | | | | | |
| **Field Name** | **Data Type** | **Field Size** | **References** | **Not Null/Null** | **Default Value** | **Rules** | **Descriptions** | **Examples** |
| Position\_ID (PK) | CHAR | 4 |  | Not Null |  |  | The unique ID of the employee’s position | P033 |
| PositionName | VARCHAR2 | 50 |  | Not Null |  |  | The name of the employee’s position | General Manager |
| Privilege | VARCHAR2 | 100 |  | Not Null |  |  | The privilege of the employee | Manage the operations of the restaurant |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Customer\_ID | Member\_ID | CustomerName | CustomerDOB | PhoneNumber | Email | Address |
| Char | Char | Varchar2 | Date | Varchar2 | Varchar2 | Varchar2 |
| ABC0375307 | M7309873 | Sophia Reynolds | 15-07-1990 | 019-8795432 | Sophia44@gmail.com | 51000, Taman Tun Dr Ismail, Kuala Lumpur |
| ABC4530540 | M8763055 | Alexander Hayes | 03-11-1985 | 016-1357924 | Hayes10@gmail.com | 51000, Taman Tun Dr Ismail, Kuala Lumpur |
| ABC0488212 | M0453045 | Isabella Morgan | 28-04-1978 | 013-3698524 | Isabella79@gmail.com | 62300, George Town, Penang |
| ABC8732521 | M0387035 | Ethan Carter | 09-12-2001 | 016-2468135 | Ethan2001@gmail.com | 62300, George Town, Penang |
| ABC5727821 | M2043045 | Olivia Ramirez | 22-09-1995 | 011-5792468 | Olivia22@gmail.com | 75000, Shah Alam,  Selangor |
| ABC9882174 | M0357307 | Mazon Patel | 11-02-1983 | 019-8246957 | Mazon1983@yahoo.com | 36810, Setia Alam,  Selangor |
| ABC0257078 | M6305708 | Ava Thompson | 14-05-2004 | 016-7539864 | Ava2004@gmail.com | 39200, Kota Kinabalu,  Sabah |
| ABC7832507 | M0380378 | Benjamin Lopez | 07-03-1972 | 011-4682156 | Lopez0703@gmail.com | 39200, Kota Kinabalu,  Sabah |

**5. Tables and records**

Customer

Member

|  |  |
| --- | --- |
| Member\_ID | StartDate |
| Char | Date |
| M7309873 | 23-09-2013 |
| M8763055 | 11-07-2017 |
| M0453045 | 05-12-2011 |
| M0387035 | 17-04-2022 |
| M2043045 | 29-10-2015 |
| M0357307 | 08-02-2020 |
| M6305708 | 14-08-2010 |
| M0380378 | 03-06-2019 |

Orders

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Order\_ID | Customer\_ID | MenuItem\_ID | Order\_Time | Status | Quantity |
| Char | Char | Int | Timestamp | Varchar2 | Int |
| OD0001 | ABC0375307 | 001 | 05-01-2024 09:30:00 | Completed | 2 |
| OD0002 | ABC4530540 | 002 | 15-01-2024 14:45:00 | Completed | 3 |
| OD0003 | ABC0488212 | 003 | 20-02-2024 18:20:00 | Completed | 3 |
| OD0004 | ABC8732521 | 004 | 09-03-2024 10:00:00 | Completed | 2 |
| OD0005 | ABC5727821 | 005 | 10-03-2024 12:30:00 | Completed | 2 |
| OD0006 | ABC9882174 | 006 | 22-07-2024 11:40:00 | In the progress | 2 |
| OD0007 | ABC0257078 | 007 | 04-08-2024 20:05:00 | In the progress | 3 |
| OD0008 | ABC7832507 | 008 | 30-10-2024 17:25:00 | In the progress | 1 |

Payment

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Payment\_ID | Customer\_ID | Amount | PaymentMethod | PaymentTime |
| Char | Char | Decimal | Varchar2 | Timestamp |
| P00001 | ABC0375307 | 35.00 | E-wallet | 05-01-2024 10:30:00 |
| P00002 | ABC4530540 | 54.00 | E-wallet | 15-01-2024 15:03:00 |
| P00003 | ABC0488212 | 70.50 | Cash | 21-02-2024 10:26:00 |
| P00004 | ABC8732521 | 38.00 | Credit Card | 09-03-2024 12:00:00 |
| P00005 | ABC5727821 | 40.00 | Cash | 10-03-2024 12:45:00 |
| P00006 | ABC9882174 | 37.00 | Cash | 22-07-2024 11:45:00 |
| P00007 | ABC0257078 | 70.50 | E-Wallet | 04-08-2024 21:00:00 |
| P00008 | ABC7832507 | 19.50 | Cash | 30-10-2024 18:02:00 |

SalesTransaction

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Transaction\_ID | Order\_ID | SalesAmount | SalesDate | TransactionTime |
| Char | Char | Decimal | Date | Timestamp |
| T001 | OD0001 | 35.00 | 05-01-2024 | 10:30:00 |
| T002 | OD0002 | 54.00 | 15-01-2024 | 15:03:00 |
| T003 | OD0003 | 70.50 | 21-02-2024 | 10:26:00 |
| T004 | OD0004 | 128.00 | 09-03-2024 | 12:00:00 |
| T005 | OD0005 | 40.00 | 10-03-2024 | 12:45:00 |
| T006 | OD0006 | 37.00 | 22-07-2024 | 11:45:00 |
| T007 | OD0007 | 70.50 | 04-08-2024 | 21:00:00 |
| T008 | OD0008 | 19.50 | 30-10-2024 | 18:02:00 |

CollectionSlot

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Slot\_ID | Restaurant\_ID | Order\_ID | StartTime | EndTime |
| Char | Char | Char | Timestamp | Timestamp |
| S001 | R001 | OD0001 | 11:20:00 | 12:00:00 |
| S002 | R002 | OD0002 | 16:00:00 | 17:00:00 |
| S003 | R003 | OD0003 | 14:20:00 | 16:20:00 |
| S004 | R004 | OD0004 | 15:00:00 | 17:40:00 |
| S005 | R001 | OD0005 | 08:20:00 | 10:10:00 |
| S006 | R002 | OD0006 | 11:00:00 | 13:20:00 |
| S007 | R005 | OD0007 | 12:20:00 | 15:00:00 |
| S008 | R001 | OD0008 | 16:20:00 | 17:00:00 |

Restaurant

|  |  |  |  |
| --- | --- | --- | --- |
| Restaurant\_ID | RestaurantName | Address | OpeningHour |
| Char | Varchar2 | Varchar2 | Varchar2 |
| R001 | Spice Fusion Bistro | 51000, Taman Tun Dr Ismail, Kuala Lumpur | 11:00 AM - 10:00 PM |
| R002 | Green Leaf Café | 62300, George Town, Penang | 8:00 AM - 9:00 PM |
| R003 | Ocean Breeze Grill | 75000, Shah Alam, Selangor | 12:00 PM - 10:00 PM |
| R004 | Fireside GrillHouse | 39200, Kota Kinabalu, Sabah | 7:00 AM - 11:00 PM |
| R005 | Sakura Sushi House | 39200, Kota Kinabalu, Sabah | 11:30 AM - 10:00 PM |

Employee

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Employee\_ID | Position\_ID | Restaurant\_ID | FirstName | LastName | DOB | PhoneNumber | Address |
| Char | Char | Char | Varchar2 | Varchar2 | Date | Varchar2 | Varchar2 |
| E4165 | P005 | R001 | Emily | Johnson | 25-09-1987 | 011-3216548 | 52000, Taman Boleh, Kuala Lumpur |
| E8912 | P002 | R001 | Daniel | Smith | 12-07-1995 | 016-9871234 | 60000, Taman Raya, Kuala Lumpur |
| E7810 | P001 | R001 | Sophia | Brown | 03-04-1982 | 013-6547893 | 51000, Taman Tun Dr Ismail, Kuala Lumpur |
| E7480 | P004 | R002 | Liam | Wilson | 19-11-1990 | 019-3691472 | 62300, George Town, Penang |
| E8941 | P001 | R002 | Olivia | Martinez | 08-06-1976 | 011-8523697 | 62500, Maven Town, Penang |
| E9318 | P001 | R002 | Ethan | Anderson | 14-02-2000 | 016-7412589 | 65500, Taman Ribu, Penang |
| E0269 | P003 | R002 | Ava | Thompson | 30-05-1989 | 019-1234567 | 62100, Taman Air. Penang |
| E7802 | P005 | R003 | Noah | Garcia | 22-10-1985 | 013-9517538 | 76000, Taman Jaya, Selangor |
| E8561 | P001 | R003 | Isabella | Clark | 07-03-1972 | 013-3698745 | 75500, Ribu Kuning, Selangor |
| E4896 | P002 | R003 | Mason | Taylor | 11-08-2003 | 019-2581473 | 74500, Taman Merdeka, Selangor |
| E4504 | P002 | R003 | Alexander | Rodriquez | 15-09-1993 | 011-2345678 | 72200, Sungai Siput, Selangor |
| E4720 | P004 | R004 | Amelia | Watson | 07-12-1988 | 016-8765432 | 32300, Taman Inderputra, Sabah |
| E9620 | P001 | R004 | Henry | Turner | 03-02-1979 | 016-1357924 | 36300, Taman Megah, Sabah |
| E6240 | P003 | R004 | Charlotte | Hall | 18-05-1997 | 011-3698524 | 35400, Taman Ria, Sabah |
| E8234 | P005 | R005 | Benjamin | Scott | 26-08-1991 | 019-9876543 | 36700, Damansara Heights, Sabah |
| E7774 | P001 | R005 | Walter | White | 14-03-1975 | 019-5792468 | 39100, Taman Melawati, Sabah |

Position

|  |  |  |
| --- | --- | --- |
| Position\_ID | PositionName | Privilege |
| Char | Varchar2 | Varchar2 |
| P001 | Waiter | Handles payments, delivering food, taking orders from customer |
| P002 | Cook | Prepares food according to recipes |
| P003 | Chef | Menu creation, maintaining food quality and consistency |
| P004 | Manager | Staffing, inventory management, customer service |
| P005 | Owner | Responsible for the overall operation and management of the restaurant |

MenuItem

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| MenuItem\_ID | Restaurant\_ID | Name | Price | Description |
| Int | Char | Varchar2 | Decimal | Varchar2 |
| 001 | R001 | Tandoori Chicken with Naan Bread | 17.50 | Tender chicken marinated in a blend of yogurt and spices then served with freshly baked naan bread |
| 002 | R002 | Lentil Soup with Whole Grain Bread | 18.00 | Hearty and nutritious lentil soup made with a blend of lentils, vegetables and grain bread. |
| 003 | R003 | Fish Tacos with Mango Salsa | 23.50 | Crispy fish fillets served in warm tortillas and topped with refreshing mango salsa |
| 004 | R004 | BBQ Beef Ribs | 19.00 | Tender beef ribs with smoky barbecue sauce, and served with a side of coleslaw or fries |
| 005 | R001 | Butter Chicken Curry | 20.00 | Succulent pieces of chicken simmered in a creamy and aromatic tomato-based sauce, enriched with butter, cream, and a blend of spices |
| 006 | R002 | Pesto Pasta with Cherry Tomatoes | 18.50 | Al dente pasta tossed in a vibrant pesto sauce made from fresh basil, pine nuts, garlic, Parmesan cheese, and olive oil, garnished with juicy cherry tomatoes |
| 007 | R005 | Shrimp Tempura Udon | 23.50 | Japanese noodle soup featuring thick wheat noodles served in a flavorful dashi broth, topped with crispy shrimp tempura and green onions |
| 008 | R001 | Chicken Tikka Masala | 19.50 | Tender pieces simmered in a creamy tomato-based sauce infused with aromatic spices |

Inventory

|  |  |  |
| --- | --- | --- |
| Inventory\_ID | MenuItem\_ID | Quantity |
| Char | Int | Int |
| I001 | 001 | 15 |
| I002 | 002 | 7 |
| I003 | 003 | 11 |
| I004 | 004 | 4 |
| I005 | 005 | 5 |
| I006 | 006 | 9 |
| I007 | 007 | 11 |
| I008 | 008 | 7 |

**6. Script**

DROP TABLE Orders CASCADE CONSTRAINTS;

DROP TABLE Payment CASCADE CONSTRAINTS;

DROP TABLE SalesTransaction CASCADE CONSTRAINTS;

DROP TABLE CollectionSlot CASCADE CONSTRAINTS;

DROP TABLE Inventory CASCADE CONSTRAINTS;

DROP TABLE MenuItem CASCADE CONSTRAINTS;

DROP TABLE Customer CASCADE CONSTRAINTS;

DROP TABLE Member CASCADE CONSTRAINTS;

DROP TABLE Employee CASCADE CONSTRAINTS;

DROP TABLE Restaurant CASCADE CONSTRAINTS;

DROP TABLE Position CASCADE CONSTRAINTS;

CREATE TABLE Customer (

Customer\_ID CHAR(10) PRIMARY KEY,

Member\_ID CHAR(8),

CustomerName VARCHAR2(40),

CustomerDOB DATE,

PhoneNumber VARCHAR2(12),

Email VARCHAR2(30),

Address VARCHAR2(100)

);

CREATE TABLE Member (

Member\_ID CHAR(8) PRIMARY KEY,

StartDate DATE

);

CREATE TABLE Restaurant (

Restaurant\_ID CHAR(4) PRIMARY KEY,

RestaurantName VARCHAR2(50),

Address VARCHAR2(100),

OpeningHour VARCHAR2(50)

);

CREATE TABLE MenuItem (

MenuItem\_ID INT PRIMARY KEY,

Restaurant\_ID CHAR(4),

Name VARCHAR2(50),

Price DECIMAL(4, 2),

Description VARCHAR2(200),

FOREIGN KEY (Restaurant\_ID) REFERENCES Restaurant(Restaurant\_ID)

);

CREATE TABLE Inventory (

Inventory\_ID CHAR(4) PRIMARY KEY,

MenuItem\_ID INT,

Quantity INT,

FOREIGN KEY (MenuItem\_ID) REFERENCES MenuItem(MenuItem\_ID)

);

CREATE TABLE Position (

Position\_ID CHAR(4) PRIMARY KEY,

PositionName VARCHAR2(50),

Privilege VARCHAR2(100)

);

CREATE TABLE Orders (

Order\_ID CHAR(6) PRIMARY KEY,

Customer\_ID CHAR(10),

MenuItem\_ID INT,

Order\_Time TIMESTAMP,

Status VARCHAR2(50),

Quantity INT,

FOREIGN KEY (Customer\_ID) REFERENCES Customer(Customer\_ID),

FOREIGN KEY (MenuItem\_ID) REFERENCES MenuItem(MenuItem\_ID)

);

CREATE TABLE Payment (

Payment\_ID CHAR(6) PRIMARY KEY,

Customer\_ID CHAR(10),

Amount DECIMAL(10,2),

PaymentMethod VARCHAR2(50),

PaymentTime TIMESTAMP,

FOREIGN KEY (Customer\_ID) REFERENCES Customer(Customer\_ID)

);

CREATE TABLE SalesTransaction (

Transaction\_ID CHAR(4) PRIMARY KEY,

Order\_ID CHAR(6),

SalesAmount DECIMAL(10,2),

SalesDate DATE,

TransactionsTime TIMESTAMP,

FOREIGN KEY (Order\_ID) REFERENCES Orders(Order\_ID)

);

CREATE TABLE Employee (

Employee\_ID CHAR(5) PRIMARY KEY,

Position\_ID CHAR(4),

Restaurant\_ID CHAR(4),

FirstName VARCHAR2(30),

LastName VARCHAR2(30),

DOB DATE,

PhoneNumber VARCHAR2(12),

Address VARCHAR2(100),

FOREIGN KEY (Position\_ID) REFERENCES Position(Position\_ID),

FOREIGN KEY (Restaurant\_ID) REFERENCES Restaurant(Restaurant\_ID)

);

CREATE TABLE CollectionSlot (

Slot\_ID CHAR(4) PRIMARY KEY,

Restaurant\_ID CHAR(4),

Order\_ID CHAR(6),

StartTime TIMESTAMP,

EndTime TIMESTAMP,

FOREIGN KEY (Restaurant\_ID) REFERENCES Restaurant(Restaurant\_ID),

FOREIGN KEY (Order\_ID) REFERENCES Orders(Order\_ID)

);

--(insert records into Customer table)

INSERT INTO Customer VALUES('ABC0375307', 'M7309873', 'Sophia Reynolds', TO\_DATE('15-07-1990', 'DD-MM-YYYY'), '019-8795432', 'Sophia44@gmail.com', '51000 Taman Tun Dr Ismail, Kuala Lumpur');

INSERT INTO Customer VALUES('ABC4530540', 'M8763055', 'Alexander Hayes', TO\_DATE('03-11-1985', 'DD-MM-YYYY'), '016-1357924', 'Hayes10@gmail.com', '51000 Taman Tun Dr Ismail, Kuala Lumpur');

INSERT INTO Customer VALUES('ABC0488212', 'M0453045', 'Isabella Morgan', TO\_DATE('28-04-1978', 'DD-MM-YYYY'), '013-3698524', 'Isabella79@gmail.com', '62300 George Town, Penang');

INSERT INTO Customer VALUES('ABC8732521', 'M0387035', 'Ethan Carter', TO\_DATE('09-12-2001', 'DD-MM-YYYY'), '016-2468135', 'Ethan2001@gmail.com', '62300 George Town, Penang');

INSERT INTO Customer VALUES('ABC5727821', 'M2043045', 'Olivia Ramirez', TO\_DATE('22-09-1995', 'DD-MM-YYYY'), '011-5792468', 'Olivia22@gmail.com', '75000 Shah Alam, Selangor');

INSERT INTO Customer VALUES('ABC9882174', 'M0357307', 'Mazon Patel', TO\_DATE('11-02-1983', 'DD-MM-YYYY'), '019-8246957', 'Mazon1983@yahoo.com', '36810 Setia Alam, Selangor');

INSERT INTO Customer VALUES('ABC0257078', 'M6305708', 'Ava Thompson', TO\_DATE('14-05-2004', 'DD-MM-YYYY'), '016-7539864', 'Ava2004@gmail.com', '39200 Kota Kinabalu, Sabah');

INSERT INTO Customer VALUES('ABC7832507', 'M0380378', 'Benjamin Lopez', TO\_DATE('07-03-1972', 'DD-MM-YYYY'), '011-4682156', 'Lopez0703@gmail.com', '39200 Kota Kinabalu, Sabah');

--(insert records into Member table)

INSERT INTO Member VALUES ('M7309873', TO\_DATE('23-09-2013', 'DD-MM-YYYY'));

INSERT INTO Member VALUES ('M8763055', TO\_DATE('11-07-2017', 'DD-MM-YYYY'));

INSERT INTO Member VALUES ('M0453045', TO\_DATE('05-12-2011', 'DD-MM-YYYY'));

INSERT INTO Member VALUES ('M0387035', TO\_DATE('17-04-2022', 'DD-MM-YYYY'));

INSERT INTO Member VALUES ('M2043045', TO\_DATE('29-10-2015', 'DD-MM-YYYY'));

INSERT INTO Member VALUES ('M0357307', TO\_DATE('08-02-2020', 'DD-MM-YYYY'));

INSERT INTO Member VALUES ('M6305708', TO\_DATE('14-08-2010', 'DD-MM-YYYY'));

INSERT INTO Member VALUES ('M0380378', TO\_DATE('03-06-2019', 'DD-MM-YYYY'));

--(insert records into Payment table)

INSERT INTO Payment VALUES ('P00001', 'ABC0375307', 35.00, 'E-wallet', TO\_TIMESTAMP('05-01-2024 10:30:00', 'DD-MM-YYYY HH24:MI:SS'));

INSERT INTO Payment VALUES ('P00002', 'ABC4530540', 54.00, 'E-wallet', TO\_TIMESTAMP('15-01-2024 15:03:00', 'DD-MM-YYYY HH24:MI:SS'));

INSERT INTO Payment VALUES ('P00003', 'ABC0488212', 70.50, 'Cash', TO\_TIMESTAMP('21-02-2024 10:26:00', 'DD-MM-YYYY HH24:MI:SS'));

INSERT INTO Payment VALUES ('P00004', 'ABC8732521', 38.00, 'Credit Card', TO\_TIMESTAMP('09-03-2024 12:00:00', 'DD-MM-YYYY HH24:MI:SS'));

INSERT INTO Payment VALUES ('P00005', 'ABC5727821', 40.00, 'Cash', TO\_TIMESTAMP('10-03-2024 12:45:00', 'DD-MM-YYYY HH24:MI:SS'));

INSERT INTO Payment VALUES ('P00006', 'ABC9882174', 37.00, 'Cash', TO\_TIMESTAMP('22-07-2024 11:45:00', 'DD-MM-YYYY HH24:MI:SS'));

INSERT INTO Payment VALUES ('P00007', 'ABC0257078', 70.50, 'E-Wallet', TO\_TIMESTAMP('04-08-2024 21:00:00', 'DD-MM-YYYY HH24:MI:SS'));

INSERT INTO Payment VALUES ('P00008', 'ABC7832507', 19.50, 'Cash', TO\_TIMESTAMP('30-10-2024 18:02:00', 'DD-MM-YYYY HH24:MI:SS'));

--(insert records into Restaurant table)

INSERT INTO Restaurant VALUES ('R001', 'Spice Fusion Bistro', '51000 Taman Tun Dr Ismail, Kuala Lumpur', '11:00 AM - 10:00 PM');

INSERT INTO Restaurant VALUES ('R002', 'Green Leaf Café', '62300 George Town, Penang', '8:00 AM - 9:00 PM');

INSERT INTO Restaurant VALUES ('R003', 'Ocean Breeze Grill', '75000 Shah Alam, Selangor', '12:00 PM - 10:00 PM');

INSERT INTO Restaurant VALUES ('R004', 'Fireside GrillHouse', '39200 Kota Kinabalu, Sabah', '7:00 AM - 11:00 PM');

INSERT INTO Restaurant VALUES ('R005', 'Sakura Sushi House', '39200 Kota Kinabalu, Sabah', '11:30 AM - 10:00 PM');

--(insert records into Position table)

INSERT INTO Position VALUES ('P001', 'Waiter', 'Handles payments, delivering food, taking orders from customer');

INSERT INTO Position VALUES ('P002', 'Cook', 'Prepares food according to recipes');

INSERT INTO Position VALUES ('P003', 'Chef', 'Menu creation, maintaining food quality and consistency');

INSERT INTO Position VALUES ('P004', 'Manager', 'Staffing, inventory management, customer service');

INSERT INTO Position VALUES ('P005', 'Owner', 'Responsible for the overall operation and management of the restaurant');

--(insert records into Employee table)

INSERT INTO Employee VALUES ('E4165', 'P005', 'R001', 'Emily', 'Johnson', TO\_DATE('25-09-1987', 'DD-MM-YYYY'), '011-3216548', '52000 Taman Boleh, Kuala Lumpur');

INSERT INTO Employee VALUES ('E8912', 'P002', 'R001', 'Daniel', 'Smith', TO\_DATE('12-07-1995', 'DD-MM-YYYY'), '016-9871234', '60000 Taman Raya, Kuala Lumpur');

INSERT INTO Employee VALUES ('E7810', 'P001', 'R001', 'Sophia', 'Brown', TO\_DATE('03-04-1982', 'DD-MM-YYYY'), '013-6547893', '51000 Taman Tun Dr Ismail, Kuala Lumpur');

INSERT INTO Employee VALUES ('E7480', 'P004', 'R002', 'Liam', 'Wilson', TO\_DATE('19-11-1990', 'DD-MM-YYYY'), '019-3691472', '62300 George Town, Penang');

INSERT INTO Employee VALUES ('E8941', 'P001', 'R002', 'Olivia', 'Martinez', TO\_DATE('08-06-1976', 'DD-MM-YYYY'), '011-8523697', '62500 Maven Town, Penang');

INSERT INTO Employee VALUES ('E9318', 'P001', 'R002', 'Ethan', 'Anderson', TO\_DATE('14-02-2000', 'DD-MM-YYYY'), '016-7412589', '65500 Taman Ribu, Penang');

INSERT INTO Employee VALUES ('E0269', 'P003', 'R002', 'Ava', 'Thompson', TO\_DATE('30-05-1989', 'DD-MM-YYYY'), '019-1234567', '62100 Taman Air, Penang');

INSERT INTO Employee VALUES ('E7802', 'P005', 'R003', 'Noah', 'Garcia', TO\_DATE('22-10-1985', 'DD-MM-YYYY'), '013-9517538', '76000 Taman Jaya, Selangor');

INSERT INTO Employee VALUES ('E8561', 'P001', 'R003', 'Isabella', 'Clark', TO\_DATE('07-03-1972', 'DD-MM-YYYY'), '013-3698745', '75500 Ribu Kuning, Selangor');

INSERT INTO Employee VALUES ('E4896', 'P002', 'R003', 'Mason', 'Taylor', TO\_DATE('11-08-2003', 'DD-MM-YYYY'), '019-2581473', '74500 Taman Merdeka, Selangor');

INSERT INTO Employee VALUES ('E4504', 'P002', 'R003', 'Alexander', 'Rodriquez', TO\_DATE('15-09-1993', 'DD-MM-YYYY'), '011-2345678', '72200 Sungai Siput, Selangor');

INSERT INTO Employee VALUES ('E4720', 'P004', 'R004', 'Amelia', 'Watson', TO\_DATE('07-12-1988', 'DD-MM-YYYY'), '016-8765432', '32300 Taman Inderputra, Sabah');

INSERT INTO Employee VALUES ('E9620', 'P001', 'R004', 'Henry', 'Turner', TO\_DATE('03-02-1979', 'DD-MM-YYYY'), '016-1357924', '36300 Taman Megah, Sabah');

INSERT INTO Employee VALUES ('E6240', 'P003', 'R004', 'Charlotte', 'Hall', TO\_DATE('18-05-1997', 'DD-MM-YYYY'), '011-3698524', '35400 Taman Ria, Sabah');

INSERT INTO Employee VALUES ('E8234', 'P005', 'R005', 'Benjamin', 'Scott', TO\_DATE('26-08-1991', 'DD-MM-YYYY'), '019-9876543', '36700 Damansara Heights, Sabah');

INSERT INTO Employee VALUES ('E7774', 'P001', 'R005', 'Walter', 'White', TO\_DATE('14-03-1975', 'DD-MM-YYYY'), '019-5792468', '39100 Taman Melawati, Sabah');

--(insert records into MenuItem table)

INSERT INTO MenuItem VALUES (1, 'R001', 'Tandoori Chicken with Naan Bread', 17.50, 'Tender chicken marinated in a blend of yogurt and spices then served with freshly baked naan bread');

INSERT INTO MenuItem VALUES 2, 'R002', 'Lentil Soup with Whole Grain Bread', 18.00, 'Hearty and nutritious lentil soup made with a blend of lentils, vegetables, and whole grain bread');

INSERT INTO MenuItem VALUES (3, 'R003', 'Fish Tacos with Mango Salsa', 23.50, 'Crispy fish fillets served in warm tortillas and topped with refreshing mango salsa');

INSERT INTO MenuItem VALUES (4, 'R004', 'BBQ Beef Ribs', 19.00, 'Tender beef ribs with smoky barbecue sauce and served with a side of coleslaw or fries');

INSERT INTO MenuItem VALUES (5, 'R001', 'Butter Chicken Curry', 20.00, 'Succulent pieces of chicken simmered in a creamy and aromatic tomato-based sauce enriched with butter, cream, and a blend of spices');

INSERT INTO MenuItem VALUES (6, 'R002', 'Pesto Pasta with Cherry Tomatoes', 18.50, 'Al dente pasta tossed in a vibrant pesto sauce made from fresh basil, pine nuts, garlic, Parmesan cheese, and olive oil, garnished with juicy cherry tomatoes');

INSERT INTO MenuItem VALUES (7, 'R005', 'Shrimp Tempura Udon', 23.50, 'Japanese noodle soup featuring thick wheat noodles served in a flavorful dashi broth topped with crispy shrimp tempura and green onions');

INSERT INTO MenuItem VALUES (8, 'R001', 'Chicken Tikka Masala', 19.50, 'Tender pieces simmered in a creamy tomato-based sauce infused with aromatic spices');

--(insert records into Inventory table)

INSERT INTO Inventory VALUES ('I001', 1, 15);

INSERT INTO Inventory VALUES ('I002', 2, 7);

INSERT INTO Inventory VALUES ('I003', 3, 11);

INSERT INTO Inventory VALUES ('I004', 4, 4);

INSERT INTO Inventory VALUES ('I005', 5, 5);

INSERT INTO Inventory VALUES ('I006', 6, 9);

INSERT INTO Inventory VALUES ('I007', 7, 11);

INSERT INTO Inventory VALUES ('I008', 8, 7);

--(insert records into Orders table)

INSERT INTO Orders VALUES ('OD0001', 'ABC0375307', 1, TO\_DATE('05-01-2024 09:30:00', 'DD-MM-YYYY HH24:MI:SS'), 'Completed', 2);

INSERT INTO Orders VALUES ('OD0002', 'ABC4530540', 2, TO\_DATE('15-01-2024 14:45:00', 'DD-MM-YYYY HH24:MI:SS'), 'Completed', 3);

INSERT INTO Orders VALUES ('OD0003', 'ABC0488212', 3, TO\_DATE('20-02-2024 18:20:00', 'DD-MM-YYYY HH24:MI:SS'), 'Completed', 3);

INSERT INTO Orders VALUES ('OD0004', 'ABC8732521', 4, TO\_DATE('09-03-2024 10:00:00', 'DD-MM-YYYY HH24:MI:SS'), 'Completed', 2);

INSERT INTO Orders VALUES ('OD0005', 'ABC5727821', 5, TO\_DATE('10-03-2024 12:30:00', 'DD-MM-YYYY HH24:MI:SS'), 'Completed', 2);

INSERT INTO Orders VALUES ('OD0006', 'ABC9882174', 6, TO\_DATE('22-07-2024 11:40:00', 'DD-MM-YYYY HH24:MI:SS'), 'In the progress', 2);

INSERT INTO Orders VALUES ('OD0007', 'ABC0257078', 7, TO\_DATE('04-08-2024 20:05:00', 'DD-MM-YYYY HH24:MI:SS'), 'In the progress', 3);

INSERT INTO Orders VALUES ('OD0008', 'ABC7832507', 8, TO\_DATE('30-10-2024 17:25:00', 'DD-MM-YYYY HH24:MI:SS'), 'In the progress', 1);

--(insert records into SalesTransaction table)

INSERT INTO SalesTransaction VALUES ('T001', 'OD0001', 35.00, TO\_DATE('05-01-2024', 'DD-MM-YYYY'), TO\_TIMESTAMP('05-01-2024 10:30:00', 'DD-MM-YYYY HH24:MI:SS'));

INSERT INTO SalesTransaction VALUES ('T002', 'OD0002', 54.00, TO\_DATE('15-01-2024', 'DD-MM-YYYY'), TO\_TIMESTAMP('15-01-2024 15:03:00', 'DD-MM-YYYY HH24:MI:SS'));

INSERT INTO SalesTransaction VALUES ('T003', 'OD0003', 70.50, TO\_DATE('21-02-2024', 'DD-MM-YYYY'), TO\_TIMESTAMP('21-02-2024 10:26:00', 'DD-MM-YYYY HH24:MI:SS'));

INSERT INTO SalesTransaction VALUES ('T004', 'OD0004', 128.00, TO\_DATE('09-03-2024', 'DD-MM-YYYY'), TO\_TIMESTAMP('09-03-2024 12:00:00', 'DD-MM-YYYY HH24:MI:SS'));

INSERT INTO SalesTransaction VALUES ('T005', 'OD0005', 40.00, TO\_DATE('10-03-2024', 'DD-MM-YYYY'), TO\_TIMESTAMP('10-03-2024 12:45:00', 'DD-MM-YYYY HH24:MI:SS'));

INSERT INTO SalesTransaction VALUES ('T006', 'OD0006', 37.00, TO\_DATE('22-07-2024', 'DD-MM-YYYY'), TO\_TIMESTAMP('22-07-2024 11:45:00', 'DD-MM-YYYY HH24:MI:SS'));

INSERT INTO SalesTransaction VALUES ('T007', 'OD0007', 70.50, TO\_DATE('04-08-2024', 'DD-MM-YYYY'), TO\_TIMESTAMP('04-08-2024 21:00:00', 'DD-MM-YYYY HH24:MI:SS'));

INSERT INTO SalesTransaction VALUES ('T008', 'OD0008', 19.50, TO\_DATE('30-10-2024', 'DD-MM-YYYY'), TO\_TIMESTAMP('30-10-2024 18:02:00', 'DD-MM-YYYY HH24:MI:SS'));

--(insert records into CollectionSlot table)

INSERT INTO CollectionSlot VALUES ('S001', 'R001', 'OD0001', TO\_TIMESTAMP('11:20:00', 'HH24:MI:SS'), TO\_TIMESTAMP('12:00:00', 'HH24:MI:SS'));

INSERT INTO CollectionSlot VALUES ('S002', 'R002', 'OD0002', TO\_TIMESTAMP('16:00:00', 'HH24:MI:SS'), TO\_TIMESTAMP('17:00:00', 'HH24:MI:SS'));

INSERT INTO CollectionSlot VALUES ('S003', 'R003', 'OD0003', TO\_TIMESTAMP('14:20:00', 'HH24:MI:SS'), TO\_TIMESTAMP('16:20:00', 'HH24:MI:SS'));

INSERT INTO CollectionSlot VALUES ('S004', 'R004', 'OD0004', TO\_TIMESTAMP('15:00:00', 'HH24:MI:SS'), TO\_TIMESTAMP('17:40:00', 'HH24:MI:SS'));

INSERT INTO CollectionSlot VALUES ('S005', 'R001', 'OD0005', TO\_TIMESTAMP('08:20:00', 'HH24:MI:SS'), TO\_TIMESTAMP('10:10:00', 'HH24:MI:SS'));

INSERT INTO CollectionSlot VALUES ('S006', 'R002', 'OD0006', TO\_TIMESTAMP('11:00:00', 'HH24:MI:SS'), TO\_TIMESTAMP('13:20:00', 'HH24:MI:SS'));

INSERT INTO CollectionSlot VALUES ('S007', 'R005', 'OD0007', TO\_TIMESTAMP('12:20:00', 'HH24:MI:SS'), TO\_TIMESTAMP('15:00:00', 'HH24:MI:SS'));

INSERT INTO CollectionSlot VALUES ('S008', 'R001', 'OD0008', TO\_TIMESTAMP('16:20:00', 'HH24:MI:SS'), TO\_TIMESTAMP('17:00:00', 'HH24:MI:SS'));

commit;