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**Course Code** : COMP6339 **Course Name** : Database Systems

**Class** : L2BC **Name of Lecturer(s)** : 1. Raymond Bahana

**Major** : CS

**Type of Assignment** : Final Project

**Submission Pattern**

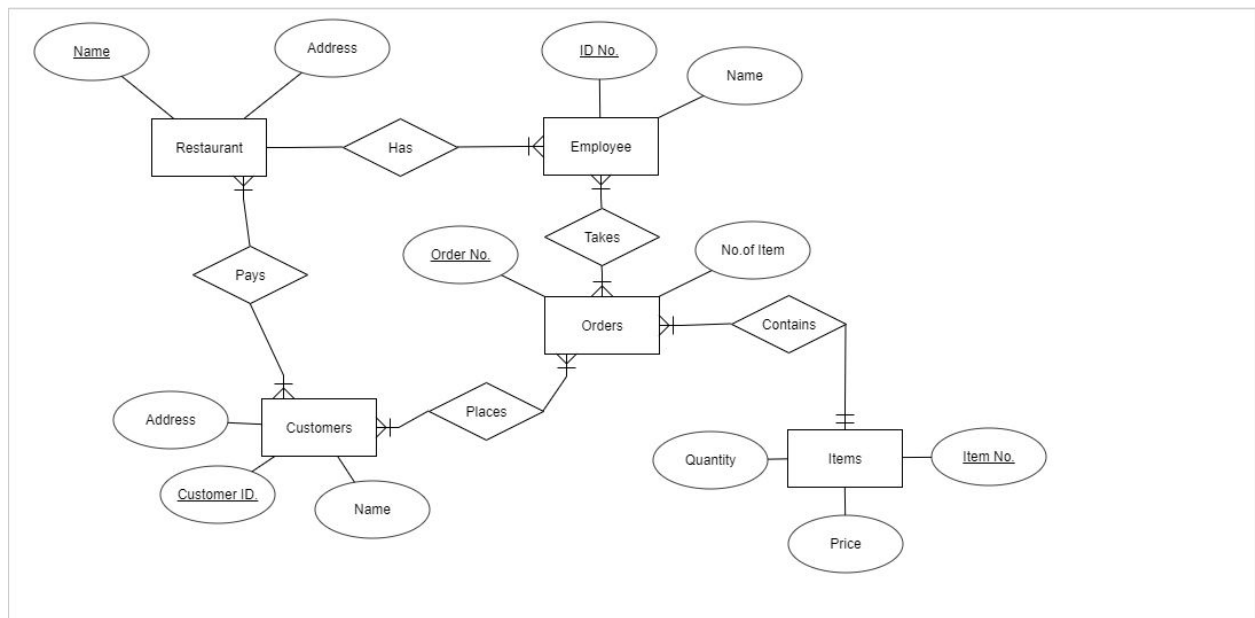
**Due Date** : 10-07-2018 **Submission Date** :

The assignment should meet the below requirements.

1. Assignment (hard copy) is required to be submitted on clean paper, and (soft copy) as per lecturer's instructions.
2. Soft copy assignment also requires the signed (hardcopy) submission of this form, which automatically validates the softcopy submission.
3. The above information is complete and legible.
4. Compiled pages are firmly stapled.
5. Assignment has been copied (soft copy and hard copy) for each student ahead of the submission.

# Restaurant Database

## ERD



## Relation Schema

restaurant(restaurant\_id, name, address)

employee(employee\_id, employee\_name, role, username, password,  
restaurant\_id) FOREIGN KEY restaurant\_id REFERENCES

restaurant(restaurant\_id)

item(item\_id, item\_name, price)

stock(stock\_id, stock, item\_id, restaurant\_id) FOREIGN KEY  
restaurant\_id REFERENCES

restaurant(restaurant\_id) FOREIGN KEY item\_id REFERENCES

item(item\_id)

customer(customer\_id, customer\_name, customer\_table)

orders(order\_id, item\_id, quantity, customer\_id, restaurant\_id)

FOREIGN KEY item\_id

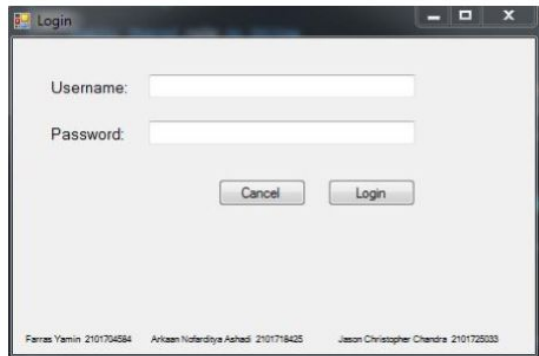
REFERENCES item(item\_id) FOREIGN KEY customer\_id

REFERENCES customer(customer\_id)

FOREIGN KEY restaurant\_id REFERENCES restaurant(restaurant\_id)

# Manual

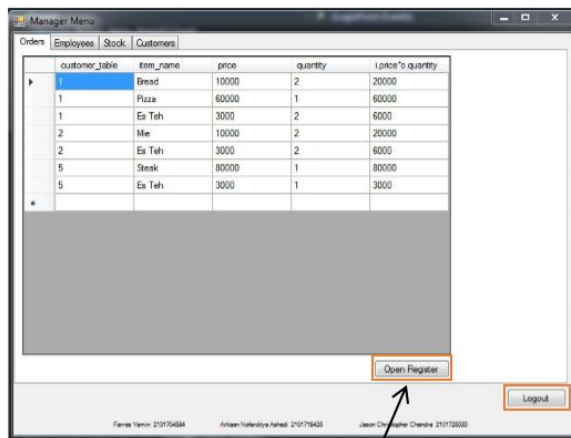
When the app is opened, the login page will be shown. The user can login as either an admin or employee, depending on their login information.



A screenshot of a 'Login' window. It features two input fields: 'Username:' and 'Password:'. Below these fields are two buttons: 'Cancel' and 'Login'. At the bottom of the window, there is a footer containing three user names and their IDs: 'Faras Yamin 2101704584', 'Arkan Nofendiya Ashadi 2101718425', and 'Jason Christopher Chandra 2101725033'.

## Admin Login:

When logged in as an admin, there are 4 tabs on the page. The first tab the admin will land on is the orders page, which will show all the existing orders.



A screenshot of the 'Manager Menu' window. It has four tabs: 'Orders', 'Employees', 'Stock', and 'Customers'. The 'Orders' tab is selected, displaying a table of orders. Below the table is a large grey rectangular area. At the bottom of the window, there are two buttons: 'Open Register' and 'Logout'. The footer contains the same three user names and IDs as the login window.

	customer_table	item_name	price	quantity	price*quantity
▶	1	Bread	10000	2	20000
	1	Pizza	60000	1	60000
	1	Es Teh	3000	2	6000
	2	Me	10000	2	20000
	2	Es Teh	3000	2	6000
	5	Steak	80000	1	80000
*	5	Es Teh	3000	1	3000

The "Logout" button will log the user out and close the manager menu, and bring the user back to the login page.

The "Open Register" button opens the register page, which will be explained later on this manual.

(Refer to page 7)

The next tab is the employees tab; here the admin will be able to see all the employees, and have privileges such as to add, remove, and to update employees.

The screenshot shows the 'Manager Menu' application with the 'Employees' tab selected. A table lists employees with columns 'employee\_id', 'employee\_name', and 'username'. Below the table are three buttons: 'Add Employee', 'Remove Employee', and 'Update Employee'. The 'Add Employee' form is highlighted with an orange border. It contains three input fields: 'Employee Name', 'Username', and 'Password', followed by an 'Add' button.

employee_id	employee_name	username
1	Tony	admin
2	Tim	tim
4	Berk	ber
5	Tono	tono
6	jm	jm

Type in the employee's name, username, and password (username and password that the employee will use to login on the login page above).

Once all the information is properly filled out, press the "Add" button to add the new employee into the database.

The screenshot shows the 'Manager Menu' application with the 'Employees' tab selected. The 'Remove Employee' form is highlighted with an orange border. It contains a single input field labeled 'Employee ID' and a 'Remove' button.

employee_id	employee_name	username
1	Tony	admin
2	Tim	tim
4	Berk	ber
5	Tono	tono
6	jm	jm

Fill in the ID of the employee that would like to be removed.

Press the "Remove" button to remove the employee with the ID that was inputted.

The screenshot shows the 'Manager Menu' application with the 'Employees' tab selected. The 'Update Employee' form is highlighted with an orange border. It contains four input fields: 'Employee ID', 'Employee Name', 'Username', and 'Password', followed by an 'Update' button.

employee_id	employee_name	username
1	Tony	admin
2	Tim	tim
4	Berk	ber
5	Tono	tono
6	jm	jm

Fill in the employee ID of which employee information would like to be updated. Afterwards fill in the information of that employee (all the fields must be filled; otherwise the change will not be committed).

Press the "Update" button after properly filling all the fields above.

In the stock tab, the current stock and items (used as a dictionary for the item name and id when updating the stock) are listed, and privileges such as add, remove, and update stock are available.

Manager Menu

Orders | Employees | Stock | Customers

stock_id	stock	item_name
4	4	Steak
5	10	Bread
6	3	Pizza
7	5	Burger
8	10	Me

item_id	item_name
1	Bread
2	Steak
3	Pizza
4	Burger
5	Me
6	Es Teh

Add Stock Remove Stock Update Stock

Item ID:

Stock:

Add

Logout

Farah Yenni 21072484 Ariana Yuldyba Nohed 21072485 Jason Christopher Chandra 21072833

Fill in the item id (based on the item ids and names on the right panel) that would like to be added and type in the amount that would like to be added on the "stock" field.

Press the "Add" button to add the item into the stock.

Manager Menu

Orders | Employees | Stock | Customers

stock_id	stock	item_name
4	4	Steak
5	10	Bread
6	3	Pizza
7	5	Burger
8	10	Me

item_id	item_name
1	Bread
2	Steak
3	Pizza
4	Burger
5	Me
6	Es Teh

Add Stock Remove Stock Update Stock

Stock ID:

Remove

Logout

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Fill in the stock id (based on the stock ids in the top panel) of the item that would like to be removed from the stock.

Press the "Remove" button to remove the item from the stock.

Manager Menu

Orders | Employees | Stock | Customers

stock_id	stock	item_name
4	4	Steak
5	10	Bread
6	3	Pizza
7	5	Burger
8	10	Me

item_id	item_name
1	Bread
2	Steak
3	Pizza
4	Burger
5	Me
6	Es Teh

Add Stock Remove Stock Update Stock

Stock ID:

Stock:

Update

Logout

Farah Yenni 21072484 Ariana Yuldyba Nohed 21072485 Jason Christopher Chandra 21072833

Fill in the stock id (based on the stock ids in the top panel) of the stock that would like to be updated, then add the quantity value in the stock field.

Press the "Update" button to update the stock of that item.

The last tab is the customers tab; here all the current customers in the restaurant are listed and privileges such as add, remove, and update customers are available.

The screenshot shows the 'Manager Menu' application with the 'Customers' tab selected. A table lists current customers with columns 'customer\_id', 'customer\_name', and 'customer\_table'. Below the table, the 'Add Customer' form is active, featuring input fields for 'Customer Name' and 'Customer Table', and an 'Add' button.

customer_id	customer_name	customer_table
1	isa	1
4	isa	2
6	bob	2
7	Travis	1
8		5

Buttons: Add Customer, Remove Customer, Update Customer

Form fields: Customer Name, Customer Table

Button: Add

Fill in the customer name and customer table.

Press the "Add" button to add the customer into the database.

The screenshot shows the 'Manager Menu' application with the 'Customers' tab selected. The 'Remove Customer' form is active, featuring an input field for 'Customer ID' and a 'Remove' button.

customer_id	customer_name	customer_table
1	isa	1
4	isa	2
6	bob	2
7	Travis	1
8		5

Buttons: Add Customer, Remove Customer, Update Customer

Form field: Customer ID

Button: Remove

Input the customer id that the user would like to remove.

Press the "Remove" button to remove the customer with the id that was inputted.

The screenshot shows the 'Manager Menu' application with the 'Customers' tab selected. The 'Update Customer' form is active, featuring input fields for 'Customer ID', 'Customer Name', and 'Customer Table', and an 'Update' button.

customer_id	customer_name	customer_table
1	isa	1
4	isa	2
6	bob	2
7	Travis	1
8		5

Buttons: Add Customer, Remove Customer, Update Customer

Form fields: Customer ID, Customer Name, Customer Table

Button: Update

Fill in the customer id that would like to be updated, and then fill in the information, such as name and table number. All the fields must be filled in otherwise the update will not be committed.

Press the "Update" button to commit the changes.

## Register:

The register page will open when an employee logs in, or when an admin presses the “Open Register” button (page 3). The register will show the user the current existing orders, item ids, and the current customers.

The screenshot shows the Register application window. It contains three data panels: Orders, Items, and Customers. Below these panels are input fields for Item ID, Quantity, and Customer ID, along with an Add button. At the bottom right, there are Refresh and Logout buttons.

**Orders panel**

order_id	item_name	price	quantity
14	Bread	10000	2
15	Pizza	60000	1
18	Es Teh	3000	2
16	Mie	10000	2
17	Es Teh	3000	2
19	Steak	80000	1
20	Es Teh	3000	1

**Items panel**

item_id	item_n
1	Bread
2	Steak
3	Pizza
4	Burger
5	Mie
6	Es Teh

**Customers panel**

customer_id	custor
3	joe
4	lye
6	bob
7	Treano
8	

**Refresh button, refreshes the information panels**

**Logout button, logs out the user, closes the register page, and brings the user back to the login page.**  
(If the user is an admin, this button will be a “Back” button)

Fill in the item id that the customer ordered and the quantity of the item. Fill in the customer id of the customer that placed that order.

Press the “Add” button to add the order into the database.

The screenshot shows the Register application window. The input fields for Item ID, Quantity, and Customer ID are highlighted. The Add button is also highlighted.

Fill in the order id that would like to be removed.

Press the “Remove” button to remove the order from the database.

The screenshot shows the Register application window. The input field for Order ID is highlighted. The Remove button is also highlighted.



Fill in the order id that would like to be updated, then fill in the quantity.

Press the "Update" button to update the quantity of the item in the order.

order_id	item_name	price	quantity
14	Bread	10000	2
15	Pizza	60000	1
18	Es Teh	3000	2
16	Me	10000	2
17	Es Teh	3000	2
19	Steak	80000	1
20	Es Teh	3000	1

Buttons: Add Order, Remove Order, Update Quantity, Get Bill, Add Customer

Order ID:   
 Quantity:

Update

Fill in the table number that would like the bill.

Press the "Get Bill" button to get the bill of the table number that was inputted. Caution: once the button is pressed and the bill is successfully processed, all of the orders corresponding to the provided table number will be removed from the database.

The total price will be displayed once the "Get Bill" button is pressed.

order_id	item_name	price	quantity
14	Bread	10000	2
15	Pizza	60000	1
18	Es Teh	3000	2
16	Me	10000	2
17	Es Teh	3000	2
19	Steak	80000	1
20	Es Teh	3000	1

Buttons: Add Order, Remove Order, Update Quantity, Get Bill, Add Customer

Table Number:

Get Bill

Buttons: Add Order, Remove Order, Update Quantity, Get Bill, Add Customer

Table Number:

Total: 180000

Get Bill

Fill in the name of the customer and the table number the customer will be seated on.

Press the "Add" button to add the customer into the database.

order_id	item_name	price	quantity
14	Bread	10000	2
15	Pizza	60000	1
18	Es Teh	3000	2
16	Me	10000	2
17	Es Teh	3000	2
19	Steak	80000	1
20	Es Teh	3000	1

Buttons: Add Order, Remove Order, Update Quantity, Get Bill, Add Customer

Customer Name:   
 Customer Table:

Add