Ahsanullah University of Science & Technology
Department of Computer Science & Engineering
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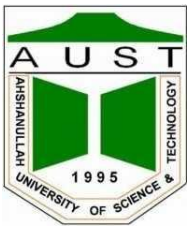

Restaurant Reserve/Food Management System

Database Lab(CSE 3104)

Submitted by:

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Introduction:

The name of our project is “Restaurant Reservation and Food Management System”. This Database Management System is built for the restaurants. Here customer can order specific food items and also reserve tables at restaurants for any occasion.

Number of Tables:

In our database project, there are fourteen tables.

Tables names:

1. Admin
2. Employee
3. Items
4. Package
5. Customer
6. TableT
7. Payment
8. Ordero
9. OrderPacList
10. OrderItemList
11. OrderDetails
12. Reservation
13. ReservationTable
14. ReservationDetails

All the data type that are used:

- int
- nchar
- varchar
- date
- time
- money

All the constraints that are used:

- not null
- unique
- primary key
- foreign key
- check
- default

Tables Description:

1. Admin:

This table is for admins. Here we save all the information about admins. There are seven attributes in this table.

Attribute	Data Type	Constraints
A_id	int	Primary key, Identity(1001,1)
Name	varchar(50)	Not null
Username	varchar(50)	Not null
Password	varchar(200)	Not null
Phone	nchar(11)	Not null
Email	varchar(200)	Not null
Address	varchar(200)	Not null

2. Employee:

This table is for employee. Here we save all the information about employee. There are eight attributes in this table.

Attribute	Data Type	Constraints
E_id	int	Primary key, Identity(2001,1)
Name	varchar(50)	Not null
Username	varchar(50)	Not null
Password	varchar(200)	Not null
Phone	nchar(11)	Not null
Email	varchar(200)	Not null
Address	varchar(200)	Not null
A_id	int	Foreign key (Admin)

3. Items:

This table is for food items. Here we save all the information about the list of single food items. There are five attributes in this table.

Attribute	Data Type	Constraints
I_id	int	Primary key, Identity(3001,1)
Name	varchar(50)	Not null
Price	money	Not null, Check(Price>0)
Quantity	int	Not null, Check(Quantity>0)
Status	int	Default (0)

4. Package:

This table is for Packages. Here we save all the information about the packages that are offered by the restaurants. There are five attributes in this table.

Attribute	Data Type	Constraints
P_id	int	Primary key, Identity(4001,1)
Name	varchar(50)	Not null
Price	money	Not null, Check(Price>0)
Description	varchar(100)	Not null, Unique
Status	int	Default (0)

5. Customer:

This table is for customers. Here we save all the information about customers. There are five attributes in this table.

Attribute	Data Type	Constraints
C_id	int	Primary key, Identity(5001,1)
Name	varchar(50)	Not null
Phone	nchar(11)	Not null
Email	varchar(200)	Not null
Address	varchar(200)	Not null

6. TableT:

This table is for tables. Here we save all the information about the restaurants tables. There are five attributes in this table.

Attribute	Data Type	Constraints
T_id	int	Primary key, Identity(6001,1)
TableType	varchar(50)	Not null
Capacity	int	Not null, Check(Capacity>0)
Location	varchar(50)	Not null
Status	int	Default (0)

7. Payment:

This table is for payments. Here we save all the information about the payments that are given by customers. There are seven attributes in this table.

Attribute	Data Type	Constraints
Pay_id	int	Primary key, Identity(7001,1)
Total_price	money	Not null, Check(Total_price>0)
Method	varchar(50)	Default ('Cash')
Paid	money	Not null, Check(Paid>0)
Due	money	Not null
P_date	date	Default (cast(getdate() as date))
P_time	time	Default (cast(getdate() as date))

8. Ordero:

This table is for orders. Here we save all the information about the orders that are given by the customers. There are four attributes in this table.

Attribute	Data Type	Constraints
O_id	int	Primary key, Identity(8001,1)
C_id	int	Foreign key (Customer)
Pay_id	int	Foreign key (Payment)
E_id	int	Foreign key (Employee)

9. OrderPacList:

This table is for package order. Here we save all the information about the packages that are ordered by the customers. There are four attributes in this table.

Attribute	Data Type	Constraints
O_id	int	Foreign key (Ordero)
P_id	int	Foreign key (Package)
Quantity	int	DEFAULT(1)

10. OrderItemList:

This table is for items order. Here we save all the information about the items that are ordered by the customers. There are seven attributes in this table.

Attribute	Data Type	Constraints
O_id	int	Foreign key (Ordero)
I_id	int	Foreign key (Items)
Quantity	int	DEFAULT(1)

11. OrderDetails:

This table is for order details. Here we save all the information about orders. There are seven attributes in this table.

Attribute	Data Type	Constraints
O_id	int	Foreign key (Ordero)
O_date	date	Default (cast(getdate() as date))
O_time	time	Default (cast(getdate() as time))

12. Reservation:

This table is for reservation. Here we save all the information about reservation. There are four attributes in this table.

Attribute	Data Type	Constraints
R_id	int	Primary key, Identity(9001,1)
C_id	int	Foreign key (Customer)

Pay_id	int	Foreign key (Payment)
E_id	int	Foreign key (Employee)

13. ReservationTable:

This table is for reserve tables. Here we save all the information about the reserve tables. There are two attributes in this table.

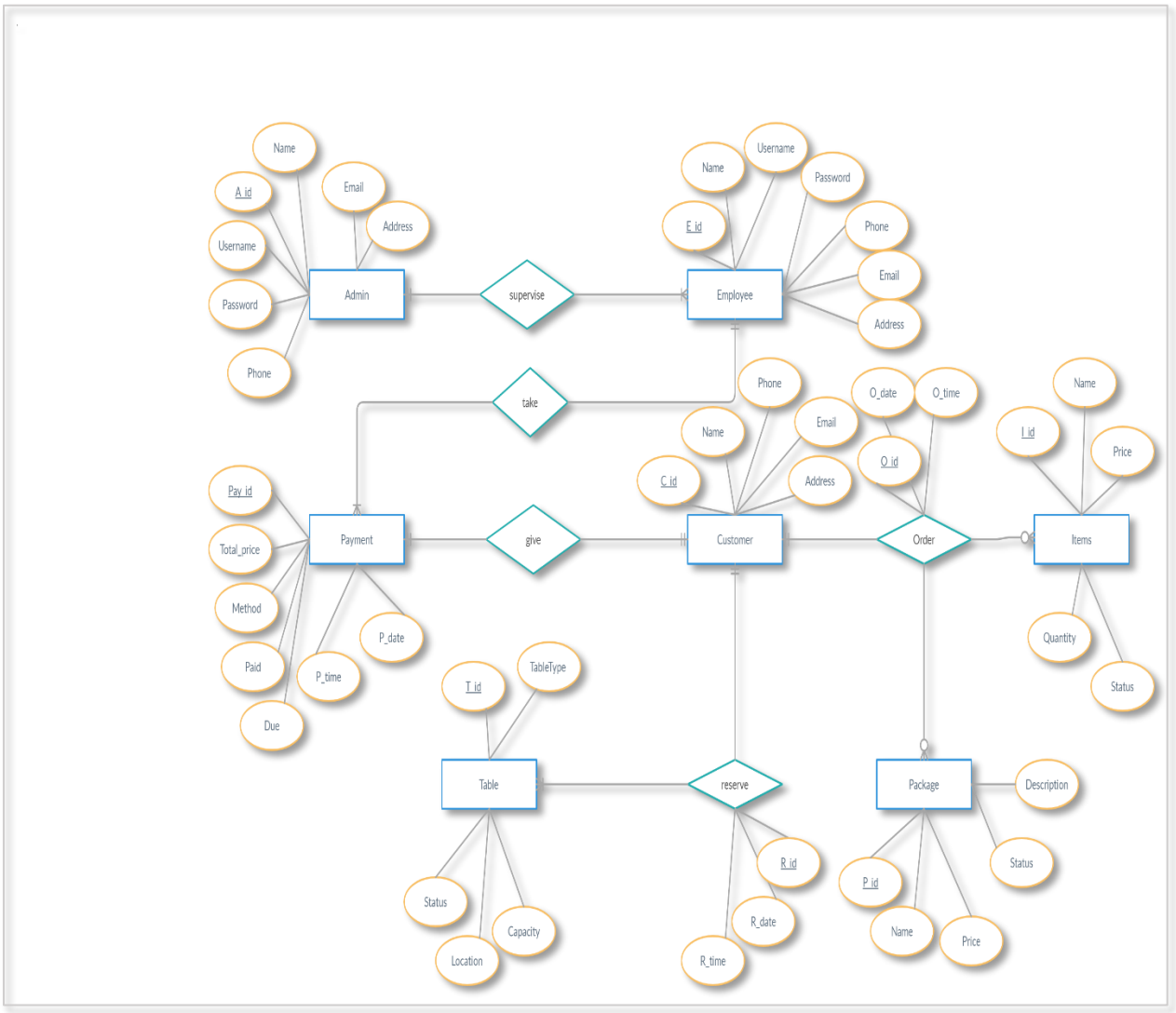
Attribute	Data Type	Constraints
R_id	int	Foreign key (Reservation)
T_id	int	Foreign key (TableT)

14. ReservationDetails:

This table is for reservation details. Here we save all the information about reservation details. There are six attributes in this table.

Attribute	Data Type	Constraints
R_id	int	Foreign key (Reservation)
Num_of_People	int	Not null, Check(Num_of_People >0)
ReserveDate	date	Not null
ReserveTime	time	DEFAULT('00:00:00')
R_date	date	Default (cast(getdate() as date))
R_time	time	Default (cast(getdate() as time))

ERD Diagram: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