System zarządzania restauracją.

# System zarządzania restauracją

Database model documentation

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## 1. Wymagania funkcjonalne

#### 1.1 Wymagania ze strony restauracji

 dodanie nowego klienta - system umożliwia ręczne dodanie klienta do bazy przez pracownika firmy

#### 1.2 Potrawy

- dodanie nowej potrawy do bazy wszystkich potraw
- dana potrawa jest oznaczana jako niedostępna

#### 1.3 Owoce morza

- sprawdzenie czy data zamówienia jest odpowiednia
- czy jest odpowiedni dzień
  - W dniach czwartek-piątek-sobota istnieje możliwość wcześniejszego zamówienia dań zawierających owoce morza. Z uwagi na indywidualny import takie zamówienie winno być złożone maksymalnie do poniedziałku poprzedzającego zamówienie.

#### 1.4 Menu

- dodanie potrawy do menu
  - przy próbie dodania potrawy do menu sprawdzane jest czy potrawa nie znajduje się obecnie w menu oraz czy wycofano potrawę
- wycofanie potrawy z menu
  - o data wycofania potrawy ustawiana jest na aktualną
- zwracanie listy potraw w obecnym menu
  - o zwracana jest lista pozycji menu, które mają datę końca pustą lub większą lub równą dzisiejszej i datę początku mniejszą lub równą dzisiejszej
- informowanie o konieczności zmian w menu
  - jeśli istnieje menu wcześniejsze(czyli endDate poprzedniego + 1 dzień = startDate aktualnego menu) od aktualnie dodanego to system sprawdza czy przynajmniej połowa pozycji została zmieniona w aktualnym względem poprzedniego. Tak samo działa to jeśli istnieje menu przyszłe( czyli endDate aktualnego + 1 dzień = startDate przyszłego menu)

#### 1.5 Rezerwacje

- dodanie nowego stolika do bazy stolików
- zwrócenie wolnych stolików w danym terminie
  - w celu otrzymania numerów oraz liczby miejsc wolnych stolików posługujemy się dwiema wartościami:
    - data zajęcia
    - data zwolnienia
    - Jeżeli stolik jest wolny to:
      - Data zajęcia i zwolnienia nie są zdefiniowane lub
      - Data zajęcia jest większa od zadanego terminu, a data zwolnienia jest mniejsza od zadanego terminu.
- kontrola dostępności stolików przy dokonywaniu rezerwacji

- przy dokonywaniu rezerwacji sprawdzana jest dostępność stolików w danym terminie w sposób jak powyżej z dodatkowym warunkiem sprawdzającym czy sumaryczna liczba miejsc przy wolnych stolikach jest większa lub równa ilości osób w rezerwacji
- oznaczenie stolika jako wolny / zajęty (zapisywana jest odpowiednio data zwolnienia / zajęcia stolika)
- zmiana statusu rezerwacji klienta indywidualnego, w tym możliwość odrzucenia rezerwacji:
  - po dokonaniu rezerwacji przez klienta za pomocą formularza www zostaje ona oznaczona automatycznie jako niepotwierdzona, pracownik restauracji może potwierdzić lub odrzucić rezerwację
  - potwierdzoną rezerwację pracownik może anulować z powodu np. nieprawidłowego statusu opłacenia zamówienia
  - o Klient sam może anulować zamówienie na swoje życzenie

#### 1.6 Zamówienia

- zamówienie może być utworzone dla klienta zarejestrowanego w systemie do bazy zamówień dodawane jest nowe zamówienie zawierające wybrane z obecnego menu potrawy, obecną datę jako datę zamówienia, jeżeli zamówienie jest na wynos to zawiera także datę odbioru, jeżeli zamówienie jest na miejscu to wtedy zawiera także stolik
- jeśli zamówienie obejmuje potrawy zawierające owoce morza, to data realizacji zamówienia może wypadać tylko w czwartek, piątek lub sobotę, przy czym data zamówienia musi być najpóźniej poniedziałkiem poprzedzającym datę realizacji (czyli datę rezerwacji dla zamówień na miejscu lub datę odbioru dla zamówień na wynos)

#### 1.7 Rabaty

- typ 1 Po realizacji ustalonej liczby zamówień Z1 (przykładowo Z1=10) za co najmniej określoną kwotę K1 (np. 30 zł każde zamówienie): R1% (np. 3%) zniżki na wszystkie zamówienia;
- typ 2 Po realizacji zamówień za łączną kwotę K2 (np. 1000 zł): jednorazowa zniżka R2% (np. 5%) na zamówienia złożone przez D1 dni (np. D1 = 7), począwszy od dnia przyznania zniżki (zniżki nie łączą się).
- Dodanie/ usunięcie zmiennych dotyczących rabatów
- Trigger sprawdzający czy klient nabył prawo do zniżki
- Zdecydowanie która zniżka jest ważniejsza w hierarchii i wybranie jej
- zapisanie informacji o rabacie przyznanym danemu klientowi
- obliczenie rabatu dla danego klienta w trakcie składania zamówienia

#### 1.8 Raporty

#### Raporty jako widoki

- generowanie listy potraw do przygotowania w danym czasie
- generowanie raportów (miesięcznych i tygodniowych dotyczących rezerwacji stolików, rabatów, menu, produktów(tutaj jeszcze dziennie))
- generowanie statystyk dla klientów indywidualnych oraz firm
- generowanie raportów dotyczących zamówień dla wszystkich klientów oraz rabatów dla klienta indywidualnego
- generowanie faktury za zamówienie dla klientów

System zarządzania restauracją.

• generowanie raportów dotyczących wydatków w danym roku, miesiącu, tygodniu

## 1.9 Raporty jako funkcje

- Generowanie raportów dla klientów indywidualnych i firm w podam okresie czasu
- Generowanie raportów o zniżkach dla danego klienta
- Generowanie raportu dla określonego menu
- Generowanie raportu dla określonego zamówienia
- Generowanie raportu dla rezerwacji (miesięcznych i tygodniowych) w podanym okresie czasu
- Generowanie raportu dla stolików (miesięcznych i tygodniowych) w podanym okresie czasu

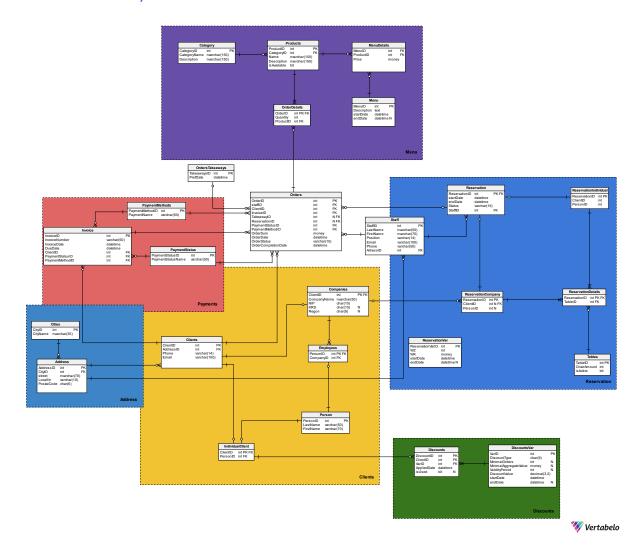
## 2. Opis modelu

Model name: System zarządzania restauracją

**Version:** 2 . 4

Database engine: Microsoft SQL Server

## 2.1. Schemat bazy



## 3. Opisy Tabel

## 3.1. Tabela Orders

Przechowuje informacje o zamówieniach.

- Klucz główny: OrderID
- Klucze obce: ClientID (do tabeli Clients), TakeawayID (do tabeli OrdersTakeaways),
   ReservationID (do tabeli Reservation), PaymenttStatusID (do tabeli PaymentStatus),
   staffID (do tabeli Staff), PaymentMethodID(do tabeli PaymentMethods)

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
OrderID	int	Not null	Numer ID zamówienia
ClientID	int	Not null	Numer ID klienta
TakeawayID	int	null	Numer ID na wynos
InvoiceID	Int	Null	Numer Faktury do zamówienia
ReservationID	int	null	Numer ID rezerwacji
PaymentStatusID	int	Not null	Numer ID statusu zapłaty
PaymentMethodID	int	Not null	Numer ID metody płatności
staffID	int	Not null	Numer ID personelu restauracji
OrderSum	money	Not null	Wartość zamówienia
OrderDate	datetime	Not null	Data złożenia zamówienia
OrderCompletionDate	datetime	null	Data skompletowania zamówienia
OrderStatus	varchar(15)	Not null	Status zamówienia - Pending - Accepted - Completed - Denied - Picked - Cancelled

```
CREATE TABLE Orders (
OrderID int NOT NULL IDENTITY (1,1),
ClientID int NOT NULL,
TakeawayID int NULL,
InvoiceID int NULL,
ReservationID int NULL,
PaymentStatusID int NOT NULL,
PaymentMethodID int NOT NULL,
StaffID int NOT NULL,
OrderSum money NOT NULL check (OrderSum >= 0),
OrderDate datetime NOT NULL default getdate(),
OrderCompletionDate datetime NULL,
OrderStatus varchar(15) NOT NULL check (OrderStatus in ('pending', 'accepted',
'completed', 'denied', 'picked', 'cancelled')),
CONSTRAINT validDateOrders check (OrderID)
);
```

### 3.2. Tabela OrdersTakeaways

Przechowuje informacje o zamówieniu na wynos

Klucz główny: TakeawaysID

Nazwa kolumny	Typy Danych	Czy null	Co przechowuje
TakeawaysID	int	Not null	Numer ID zamówienia na
, .			wynos
PrefDate	datetime	Not null	Preferowaną date odbioru
FielDate	datetime	Not hall	zamówienia

```
CREATE TABLE OrdersTakeaways (
    TakeawaysID int NOT NULL IDENTITY (1,1),
    PrefDate datetime NOT NULL check (PrefDate >= getdate()),
    CONSTRAINT OrdersTakeaways_pk PRIMARY KEY (TakeawaysID)
);
```

## 3.3. Tabela Reservation

Przechowuje informacje o aktualnych rezerwacjach

Klucz główny: ReservationID

Klucze obce: StaffID (do tabeli Staff)

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
ReservationID	int	Not null	Numer ID rezerwacji

startDate	datetime	Not null	Data rozpoczęcia rezerwacji
endDate	datetime Not null	Not null	Data zakończenia
			rezerwacji
	Varchar(15)	Not null	Status danej
Status Vard			rezerwacji
			- Pending
			- Accepted
			- Denied
			- Cancelled
			- Waiting
StaffID	11	Not null	Numer ID
Stallin	int		personelu

```
CREATE TABLE Reservation (
ReservationID int NOT NULL IDENTITY (1,1),
startDate datetime NOT NULL,
endDate datetime NOT NULL,
Status varchar(15) NOT NULL default 'waiting',
StaffID int NOT NULL,
constraint validStatus
check (Status in ('pending', 'accepted', 'denied', 'cancelled', 'waiting')),
CONSTRAINT validDateReservation check(startDate < endDate),
CONSTRAINT Reservation_pk PRIMARY KEY (ReservationID)
);
```

#### 3.4. Tabela ReservationIndividual

Przechowuje informacje o rezerwacjach osób indywidualnych

Klucz główny: ReservationID

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
ReservationID	int	Not null	Numer ID rezerwacji
ClientID	int	Not null	Numer ID klienta
PersonID	int	Not null	Numer ID osoby

```
CREATE TABLE ReservationIndividual (
    ReservationID int NOT NULL,
    ClientID int NOT NULL,
    PersonID int NOT NULL,
    CONSTRAINT ReservationIndividual_pk PRIMARY KEY (ReservationID)
);
```

## 3.5. Tabela ReservationCompany

Przechowuje informacje o rezerwacjach firmowych

Klucz główny: ReservationID

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
ReservationID	int	Not null	Numer ID rezerwacji
ClientID	int	Not null	Numer ID klienta
PersonID	int	Not null	Numer ID osoby

```
CREATE TABLE ReservationCompany (
    ReservationID int NOT NULL,
    ClientID int NULL,
    PersonID int NULL,
    CONSTRAINT ReservationCompany_pk PRIMARY KEY (ReservationID)
);
```

#### 3.6. Tabela ReservationDetails

Łączy rezerwacje z stolikami dla nich

Klucz główny: brak

Klucze obce: TableID (do tabeli Tables)

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
ReservationID	int	Not null	Numer ID rezerwacjio
TableID	int	Not null	Numer ID stolika

```
CREATE TABLE ReservationDetails (
    ReservationID int NOT NULL,
    TableID int NOT NULL
);
```

#### 3.7. Tabela Tables

Przechowuje informacje o stolikach

Klucz główny: TableID

Klucze obce: TableID (do tabeli Tables)

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
TableID	int	Not null	Numer ID stolika
ChairAmount	int	Not null	Liczbe krzeseł
isActive	bit	Not null	Czy stolik jest aktywny. Czy nie stoi na zapleczu

```
CREATE TABLE Tables (

TableID int NOT NULL,

ChairAmount int NOT NULL check (ChairAmount >= 2),

isActive bit NOT NULL default 1,

CONSTRAINT Tables_pk PRIMARY KEY (TableID)
);
```

#### 3.8. Tabela ReservationVar

Przechowuje informacje o zmiennych do rezerwacji

Klucz główny: ReservationVarID

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
			Numer ID zmiennej
ReservationVarID	int	Not null	dotyczącej
			rezerwacji
			Minimalna liczba
WZ	int	Not null	zamówień
VVZ	int	NOT HUII	potrzebna do
			rezerwację
			Minimalna kwota
WK	money	Not null	potrzebna do
			rezerwację
			Data
startDate	datetime	Not null	obowiązywania
			zmiennej
endDate			Data zakończenia
	datetime	null	obowiązywania
			zmiennej

```
CREATE TABLE ReservationVar (
ReservationVarID int NOT NULL IDENTITY (1,1),
WZ int NOT NULL check (WZ > 0),
WK money NOT NULL check (WK > 0),
startDate datetime NOT NULL,
endDate datetime NULL,
CONSTRAINT check(startDate < endDate or endDate is NULL),
CONSTRAINT ReservationVar_pk PRIMARY KEY (ReservationVarID)
);
```

#### 3.9. Tabela Clients

Przechowuje informacje o klientach

Klucz główny: ClientID

Klucze obce: AddressID (do tabeli Address)

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
ClientID	int	Not null	Numer ID klienta
AddressID	int	Not null	Numer ID adressów
Phone	varchar(14)	Not null	Numer telefonu
Email	varchar(100)	Not null	Adres email

### 3.10. Tabela Companies

Przechowuje informacje o klientach firmowych

Klucz główny: ClientID

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
ClientID	int	Not null	Numer ID klienta

CompanyName	nvarchar(50)	Not null	Nazwe firmy
NIP	char(10)	Not null	Numer NIP
KRS	char(10)	null	Numer KRS
Regon	char(9)	null	Numer REGON

## 3.11. Tabela Employees

Przechowuje informacje o pracownikach danej firmy

Klucz główny: PersonID

Klucze obce: CompanyID (do tabeli Companies), PersonID (do tabeli Employees)

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
PersonID	int	Not null	Numer ID osoby
CompanyID	int	Not null	Numer ID Firmy

```
CREATE TABLE Employees (
PersonID int NOT NULL,
CompanyID int NOT NULL,
CONSTRAINT Employees_pk PRIMARY KEY (PersonID)
);
```

#### 3.12. Tabela Person

Przechowuje informacje o osobach

Klucz główny: PersonID

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
PersonID	int	Not null	Numer ID osoby
LastName	varchar(50)	Not null	Imie osoby
FirstName	varchar(70)	Not null	Nazwisko osoby

```
CREATE TABLE Person (
PersonID int NOT NULL,
LastName varchar(50) NOT NULL,
FirstName varchar(70) NOT NULL,
CONSTRAINT Person_pk PRIMARY KEY (PersonID)
);
```

#### 3.13. Tabela IndividualClient

Przechowuje informacje o klientach indywidualnych

Klucz główny: ClientID

Klucze obce: PersonID (do tabeli Person)

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
ClientID	int	Not null	Numer ID klienta
PersonID	int	Not null	Numer ID osoby

```
CREATE TABLE IndividualClient (
    ClientID int NOT NULL,
    PersonID int NOT NULL,
    CONSTRAINT IndividualClient_pk PRIMARY KEY (ClientID)
);
```

### 3.14. Tabela Category

Przechowuje informacje o kategoriach produktów

Klucz główny: CategoryID

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
CategoryID	int	Not null	Numer ID kategorii

CategoryName	nvarchar(50)	Not null	Nazwe kategorii
Description	nvarchar(150)	Not null	Opis Kategorii

```
CREATE TABLE Category (
CategoryID int NOT NULL IDENTITY (1,1),
CategoryName nvarchar(50) NOT NULL,
Description nvarchar(150) NOT NULL,
CONSTRAINT Category_pk PRIMARY KEY (CategoryID)
);
```

#### 3.15. Tabela Products

Przechowuje informacje o produktach oferowanych przez restauracje

Klucz główny: ProductID

Klucze obce: CategoryID (do tabeli Category)

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
ProductID	int	Not null	Numer ID produktu
CategoryID	int	Not null	Numer ID kategorii
Name	nvarchar(50)	Not null	Nazwe produktu
Description	nvarchar(150)	Not null	Opis produktu
IsAvailable	Bit	Not null	Mówimy o tym czy dany produkt jest dostępny. Chodzi o produkty np sezonowe

```
CREATE TABLE Products (
ProductID int NOT NULL IDENTITY (1,1),
CategoryID int NOT NULL,
Name nvarchar(50) NOT NULL,
Description nvarchar(150) NOT NULL default 'brak opisu',
IsAvailable bit NOT NULL default 1,
CONSTRAINT Products_pk PRIMARY KEY (ProductID)
);
```

#### 3.16. Tabela Menu

Przechowuje informacje o menu oferowanym przez restauracje w danym okresie

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Klucz główny: MenuID

Klucze obce: MenuID (do tabeli MenuDetails)

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
MenuID	int	Not null	Numer ID menu
Description	Varchar(max)	Not null	Opis danego menu
startDate	datetime	Not null	Data od kiedy obowiązuje menu
endDate	datetime	null	Data do kiedy obowiązuje menu. Może być tak, że menu nie ma końca obowiązywania

```
CREATE TABLE Menu (
    MenuID int NOT NULL,
    Description varchar(max) NOT NULL DEFAULT 'Brak opisu',
    startDate datetime NOT NULL DEFAULT getdate(),
    endDate datetime NULL,
    CONSTRAINT validDateMenu
        check((startDate < endDate and endDate is not null) or endDate is null),
    CONSTRAINT Menu_pk PRIMARY KEY (MenuID)
);
```

### 3.17. Tabela OrderDetails

Przechowuje informacje o szczegółach danego zamówienia

Klucz główny: brak

Klucze obce: ProductID (do tabeli Products), OrderID (do tabeli Orders)

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
OrderID	int	Not null	Numer ID
Orderib			zamówienia
			Ilość danego
Quantity	int	Not null	produktu w danym
			zamówieniu
ProductID	int	Not null	Numer ID produktu

```
CREATE TABLE OrderDetails (
    OrderID int NOT NULL,
    Quantity int NOT NULL check ( Quantity > 0 ),
    ProductID int NOT NULL
);
```

#### 3.18. Tabela Discounts

Przechowuje informacje o zniżka dla klientów indywidualnych

Klucz główny: DiscountID

Klucze obce: ClientID (do tabeli IndividualClient), VarID (do tabeli DiscountsVar)

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
DiscountID	int	Not null	Numer ID zniżki
ClientID	int	Not null	Numer ID klienta
			Numer ID
VarID	int	Not null	zmiennych
Valid	IIIL	NOT HUII	dotyczących tego
			zamówienia
AppliedDate	datetime	Not null	Data od kiedy
AppliedDate	uatetime	NOT HUII	obowiązuje zniżka
			Jeśli jest to
	Bit	Null	jednorazowa zniżka
isUsed			to posiada wartości
			czy jest już
			nałożona na klienta

```
CREATE TABLE Discounts (
   DiscountID int NOT NULL IDENTITY (1,1),
   ClientID int NOT NULL,
   VarID int NOT NULL,
   AppliedDate datetime NOT NULL,
   isUsed bit NULL default 0,
   CONSTRAINT Discounts_pk PRIMARY KEY (DiscountID)
);
```

## 3.19. Tabela DiscountsVar

Przechowuje informacje o zmiennych dotyczących zniżek dla klientów indywidualnych

Klucz główny: VarID

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
---------------	-------------	----------	----------------

VarID	int	Not null	Numer ID zmiennej
DiscountType	char(9)	Not null	Typ zniżki: - Tymczasowa - Trwała
MinimalOrders	int	null	Najmniższa liczba zamówień aby zniżka zaczęła obowiązywać. Dotyczy zniżki tymczasowej
MinimalAggregateValue	money	null	Najmniższa sumaryczna kwota wydana na zamówienia
ValidityPeriod	int	null	Ilość dni w jakich dotyczy zniżka. Dotyczy zniżki tymczasowej
DiscountValue	decimal(3,2)	Not null	Wartość zniżki
startDate	datetime	Not null	Data od kiedy dane zmienne obowiązywały
endDate	datetime	null	Data kiedy zmienne skończyły obowiązywać

#### 3.20. Tabela PaymentStatus

Przechowuje informacje o statusie opłat zamówienia

Klucz główny: PaymentStatusID

Klucze obce: PaymentMethodID (dotyczy tabeli PaymentMethods)

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
---------------	-------------	----------	----------------

PaymentStatusID	int	Not null	Numer ID statusu płatności zamówienia
PaymentStatusName	varchar(50)	Not null	Nazwa statusu płatności

```
-- Table: PaymentStatus

CREATE TABLE PaymentStatus (
    PaymentStatusID int NOT NULL IDENTITY (1,1),
    PaymentStatusName varchar(50) NOT NULL default 'Unpaid',
    CONSTRAINT PaymentStatus_pk PRIMARY KEY (PaymentStatusID)
);
```

#### 3.21. Tabela Invoice

Przechowuje informacje o fakturach

- Klucz główny: InvoiceID
- Klucze obce: PaymentStatusID (dotyczy tabeli PaymentStatus), ClientID (dotyczy tabeli Clients), PaymentMethodID( do tabeli PaymentMethod)

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
InvoiceID	int	Not null	Numer ID fakttury
InvoiceNumber	varchar(50)	Not null	Numer faktury
InvoiceDate	datetime	Not null	Data wystawienia faktury
DueDate	datetime	Not null	Termin zapłaty
ClientID	int	Not null	Numer ID klienta
PaymentStatusID	int	Not null	Numer ID statusu płatności faktury
PaymentMethodID	int	Not null	Numer ID metody płatności faktury

```
CREATE TABLE Invoice (
    InvoiceID int NOT NULL IDENTITY (1,1),
    InvoiceNumber varchar(50) NOT NULL UNIQUE,
    InvoiceDate datetime NOT NULL,
    DueDate datetime NOT NULL,
    ClientID int NOT NULL,
    PaymentStatusID int NOT NULL,
    CONSTRAINT Invoice_pk PRIMARY KEY (InvoiceID)
);
```

#### 3.22. Tabela Cities

Przechowuje informacje o miastach

■ Klucz główny: CityID

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
CityID	int	Not null	Numer ID miasta.
CityName	nvarchar(35)	Not null	Nazwa miasta

```
CREATE TABLE Cities (
    CityID INT NOT NULL IDENTITY (1,1),
    CityName nvarchar(35) NOT NULL,
    CONSTRAINT Cities_pk PRIMARY KEY (CityID)
);
```

#### 3.23. Tabela Address

Przechowuje informacje o Adresach

Klucz główny: AddressID

Klucze obce: CityID (dotyczy tabeli Cities)

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
AddressID	int	Not null	Numer ID adresu
CityID	char(3)	Not null	Numer ID miasta. Opis w tabeli Cities.
street	nvarchar(70)	Not null	Nazwa ulicy
LocalNr	varchar(10)	Not null	Numer Domu wraz z np. 10A itp.
PostalCode	char(6)	Not null	Kod pocztowy w postaci XX-XXX.

```
CREATE TABLE Address (
AddressID int NOT NULL IDENTITY (1,1),
CityID INT NOT NULL,
street nvarchar(70) NOT NULL,
LocalNr varchar(10) NOT NULL check(localNr like '[0-9]%'),
PostalCode char(6) NOT NULL
check(PostalCode like '[0-9][0-9]-[0-9][0-9]'),
CONSTRAINT Address_pk PRIMARY KEY (AddressID)
);
```

### 3.24. Tabela PaymentMethods

Przechowuje informacje o metodach płatności

Klucz główny: PaymentMethodID

Nazwa kolumny	Typy danych	Czy null	Co przechowuje
PaymentMethodID	int	Not null	Numer ID metody płatności
PaymentName	varchar(50)	Not null	Nazwa metody

```
CREATE TABLE PaymentMethods (
PaymentMethodID int NOT NULL IDENTITY (1,1),
PaymentName varchar(50) NOT NULL,
CONSTRAINT PaymentMethods_pk PRIMARY KEY (PaymentMethodID)
);
```

#### 3.25. Table Staff

Przechowuje informacje o personelu

Klucz główny: StaffID

Column name	Туре	Properties	Description
StaffID	int	Not null	Numer ID pracownika
LastName	nvarchar(50)	Not null	Nazwisko pracownika
FirstName	nvarchar(70)	Not null	Imię pracownika
Position	varchar(14)	Not null	Stanowisko jakie pracownik zajmuje w firmie
Email	varchar(100)	Not null	Adres email

Phone	varchar(50)	Not null	Numer telefonu
AdressID	int	Not null	Numer ID adresu

#### 3.26 Table MenuDetails

Przechowuje pomocnicze informacje dla Menu

Klucz główny: MenuID

Column name	Туре	Properties	Description
MenuID	int	Not null	Numer ID Menu
ProductID	int	Not null	Numer ID Produktu
Price	money	Not null	Cena produktu w danym menu

```
CREATE TABLE MenuDetails (
    MenuID int NOT NULL,
    ProductID int NOT NULL,
    Price money NOT NULL CHECK ( Price > 0 )
);
```

## 4. Referencje

## 4.1. Reference Products\_Category

Category	0*	Products
CategoryID	<->	CategoryID

```
alter table Products
add constraint Products_Category
foreign key (CategoryID) references Category
on update cascade
```

## 4.2. Reference MenuDetails\_Products

Products	0*	MenuDetails
ProductID	<->	ProductID

ALTER TABLE MenuDetails ADD CONSTRAINT MenuDetails\_Products

FOREIGN KEY (ProductID)

REFERENCES Products (ProductID)

ON UPDATE CASCADE;

## 4.3 Reference MenuDetails\_Menu

Menu	0*	MenuDetails
MenuID	<->	MenuID

ALTER TABLE MenuDetails ADD CONSTRAINT MenuDetails\_Menu
FOREIGN KEY (MenuID)
REFERENCES Menu (MenuID)
ON UPDATE CASCADE;

## 4.4. Reference OrderDetails\_Products

Products	1*	OrderDetails
ProductID	<->	ProductID

```
alter table OrderDetails
add constraint OrderDetails_Products
foreign key (ProductID) references Products
on update cascade
```

## 4.5. Reference Orders\_OrdersTakeaways

OrdersTakeaways	0*	Orders
TakeawaysID	<->	TakeawayID

```
alter table Orders
add constraint Orders_OrdersTakeaways
foreign key (TakeawayID) references OrdersTakeaways
on update cascade
```

## 4.6. Reference OrderDetails\_Orders

Orders	0*	OrderDetails
OrderID	<->	OrderID

```
alter table OrderDetails
add constraint OrderDetails_Orders
foreign key (OrderID) references Orders
on update cascade
```

## 4.7. Reference Discounts\_DiscountsVar

DiscountsVar	1*	Discounts
VarID	<->	VarID

```
alter table Discounts

add constraint Discounts_DiscountsVar
foreign key (VarID) references DiscountsVar

on update cascade
```

## 4.8. Reference Discounts\_IndividualClient

IndividualClient	0*	Discounts
ClientID	<->	ClientID

```
alter table Discounts
add constraint Discounts_IndividualClient
foreign key (ClientID) references IndividualClient
on update cascade
```

## 4.9. Reference Clients\_IndividualClient

Clients	01	IndividualClient
ClientID	<->	ClientID

```
alter table IndividualClient
add constraint Clients_IndividualClient
foreign key (ClientID) references Clients
on update cascade
on delete cascade
```

## 4.10. Reference IndividualClient\_Person

Person	01	IndividualClient
PersonID	<->	PersonID

```
alter table IndividualClient
add constraint IndividualClient_Person
foreign key (PersonID) references Person
on update cascade
```

## 4.11. Reference Employees\_Person

Person	01	Employees
--------	----	-----------

PersonID	<->	PersonID

```
alter table Employees
add constraint Employees_Person
foreign key (PersonID) references Person
on update cascade
```

## 4.12. Reference Companies\_Clients

Clients	01	Companies
ClientID	<->	ClientID

```
alter table Companies

add constraint Companies_Clients
foreign key (ClientID) references Clients

on update cascade

on delete cascade
```

## 4.13. Reference Employees\_Companies

Companies	0*	Employees
ClientID	<->	CompanyID

```
alter table Employees

add constraint Employees_Companies

foreign key (CompanyID) references Companies

on update cascade
```

## 4.14. Reference Orders Clients

Clients	0*	Orders
ClientID	<->	ClientID

```
alter table Orders
add constraint Orders_Clients
foreign key (ClientID) references Clients
on update cascade
```

## 4.15. Reference ReservationCompany\_Companies

Companies	0*	ReservationCompany
ClientID	<->	ClientID

```
alter table ReservationCompany
add constraint ReservationCompany_Companies
foreign key (ClientID) references Companies
on update cascade
```

## 4.16. Reference Reservation\_ReservationCompany

ReservationCompany	01	Reservation
ReservationID	<->	ReservationID

```
ALTER TABLE ReservationCompany ADD CONSTRAINT ReservationCompany_Reservation FOREIGN KEY (ReservationID)

REFERENCES Reservation (ReservationID);
```

#### 4.17. Reference Orders\_Reservation

Reservation	0*	Orders
ReservationID	<->	ReservationID

```
alter table Orders
add constraint Orders_Reservation
foreign key (ReservationID) references Reservation
on update cascade
```

## 4.18. Reference ReservationDetails\_Tables

Tables	0*	ReservationDetails
TableID	<->	TableID

alter table ReservationDetails
add constraint ReservationDetails\_Tables
foreign key (TableID) references Tables
on update cascade

## 4.19. Reference ReservationDetails\_ReservationCompany

ReservationCompany	1*	ReservationDetails
ReservationID	<->	ReservationID

alter table ReservationDetails
add constraint ReservationDetails\_ReservationCompany
foreign key (ReservationID) references ReservationCompany
on update cascade

## 4.20. Reference ReservationDetails\_ReservationIndividual

ReservationIndividual	1*	ReservationDetails
ReservationID	<->	ReservationID

alter table ReservationDetails
add constraint ReservationDetails\_ReservationIndividual
foreign key (ReservationID) references ReservationIndividual
on update cascade

## 4.21. Reference Reservation\_ReservationIndividual

ReservationIndividual	01	Reservation
ReservationID	<->	ReservationID

ALTER TABLE ReservationIndividual ADD CONSTRAINT ReservationIndividual\_Reservation FOREIGN KEY (ReservationID)

REFERENCES Reservation (ReservationID);

## 4.22. Reference Orders\_PaymentStatus

PaymentStatus	0*	Orders
PaymentStatusID	<->	PaymentStatusID

```
alter table Orders
add constraint Orders_PaymentStatus
foreign key (PaymentStatusID) references PaymentStatus
on update cascade
```

#### 4.23. Reference Invoice PaymentStatus

PaymentStatus	0*	Invoice
PaymentStatusID	<->	PaymentStatusID

```
alter table Invoice

add constraint Invoice_PaymentStatus

foreign key (PaymentStatusID) references PaymentStatus

on update cascade
```

#### 4.24. Reference Invoice Clients

Clients	0*	Invoice
ClientID	<->	ClientID

```
alter table Invoice
add constraint Invoice_Clients
foreign key (ClientID) references Clients
on update cascade
```

# 4.25. Reference Clients\_Address

Address	0*	Clients
AddressID	<->	AddressID

alter table Clients add constraint Clients\_Address foreign key (AddressID) references Address on update cascade

# 4.26. Reference Address\_Cities

Cities	0*	Address
CityID	<->	CityID

alter table Address add constraint Address\_Cities foreign key (CityID) references Cities on update cascade

# 4.27. Reference Orders\_staff

Staff	0*	Orders
StaffID	<->	staffID

alter table Orders
add constraint Orders\_staff
foreign key (staffID) references Staff
on update cascade

# 4.28. Reference Staff Address

Address	0*	Staff
AddressID	<->	AdressID

```
ALTER TABLE Staff ADD CONSTRAINT Staff_Address

FOREIGN KEY (AddressID)

REFERENCES Address (AddressID);
```

# 4.29. Reference Reservation\_Staff

Staff	0*	Reservation
StaffID	<->	StaffID

```
alter table Reservation
add constraint Reservation_Staff
foreign key (StaffID) references Staff
```

# 4.30. Reference Orders PaymentMethod

```
ALTER TABLE Orders ADD CONSTRAINT Orders_PaymentMethods

FOREIGN KEY (PaymentMethodID)

REFERENCES PaymentMethods (PaymentMethodID);
```

# 4.31 Reference Invoice\_PaymentMethod

```
ALTER TABLE Invoice ADD CONSTRAINT Invoice_PaymentMethods

FOREIGN KEY (PaymentMethodID)

REFERENCES PaymentMethods (PaymentMethodID);
```

# 4.32. Reference Orders\_Invoice

```
-- Reference: Orders_Invoice (table: Orders)
ALTER TABLE Orders ADD CONSTRAINT Orders_Invoice
FOREIGN KEY (InvoiceID)
REFERENCES Invoice (InvoiceID);
```

#### 5.Widoki

#### 5.1. CurrentMenu

Aktualne menu wraz z datą obowiązywania.

```
CREATE VIEW dbo.CurrentMenu AS

SELECT M1.MenuID, Price, Name,

P.Description AS 'Product Description',

M2.Description

AS 'Menu Description', startDate,

ISNULL(CONVERT(varchar(max), endDate, 120), 'Menu nie ma daty

końca') AS 'endDate'

FROM MenuDetails M1

INNER JOIN Products P ON P.ProductID = M1.ProductID

INNER JOIN Menu M2 ON M1.MenuID = M2.MenuID

WHERE ((getdate() >= startDate) AND (getdate() <= endDate))

OR ((getdate() >= startDate) AND endDate IS NULL);

GO
```

#### 5.2. CurrentReservationVars

Aktualnie obowiązujące zmienne opisujące warunki rezerwacji.

```
CREATE VIEW dbo.CurrentReservationVars
    SELECT
        WZ AS [Minimal number of orders],
        WK AS [Minimal value for orders],
        startDate,
            CONVERT (varchar (20), endDate, 120),
            'Obowiazuje zawsze'
        ) AS 'Koniec daty obowiązywania zmiennej'
    FROM
        ReservationVar
    WHERE
        (
            (getdate() >= startDate)
            AND (getdate() <= endDate)</pre>
        )
        OR (
            (getdate() >= startDate)
            AND endDate IS NULL
        );
GO
```

# 5.3. UnPaidInvoicesIndividuals

Nieopłacone faktury klientów indywidualnych.

```
CREATE VIEW dbo.UnPaidInvoicesIndividuals
AS
    SELECT
        InvoiceNumber AS [Numer faktury],
        InvoiceDate AS [Data wystawienia],
        DueDate AS [Data terminu zaplaty],
        concat(LastName, ' ', FirstName) AS [Dane],
        Phone,
        Email,
        concat(CityName, ' ', street, ' ', LocalNr) AS [Adres],
        PostalCode
    FROM Invoice I
        INNER JOIN Clients C ON C.ClientID = I.ClientID
        INNER JOIN Address A ON C.AddressID = A.AddressID
        INNER JOIN IndividualClient IC ON C.ClientID = IC.ClientID
       INNER JOIN Person P ON P.PersonID = IC.PersonID
        INNER JOIN Cities C2 ON C2.CityID = A.CityID
        INNER JOIN PaymentStatus PS ON I.PaymentStatusID =
PS.PaymentStatusID
   WHERE
        LOWER (PaymentStatusName) LIKE 'unpaid';
GO
```

# 5.4. UnPaidInvoicesCompanies

#### Nieopłacone faktury firm.

```
CREATE VIEW dbo.UnPaidInvoicesCompanies
AS
    SELECT
       InvoiceNumber AS [Numer faktury],
        InvoiceDate AS [Data wystawienia],
        DueDate AS [Data terminu zaplaty],
       CompanyName,
       NIP,
       isnull(KRS, 'Brak') AS [KRS],
       isnull(Regon, 'Brak') AS [Regon],
       Phone,
        concat(CityName, ' ', street, ' ', LocalNr) AS [Adres],
       PostalCode
    FROM Invoice
        INNER JOIN Clients C ON C.ClientID = Invoice.ClientID
        INNER JOIN Companies CO ON CO.ClientID = C.ClientID
        INNER JOIN Address A ON C.AddressID = A.AddressID
        INNER JOIN Cities C2 ON C2.CityID = A.CityID
        INNER JOIN PaymentStatus PS ON Invoice.PaymentStatusID =
PS.PaymentStatusID
   WHERE
        (LOWER (PaymentStatusName) LIKE 'Unpaid');
GO
```

# 5.5. WithdrawnProducts

# Wycofane produkty.

```
CREATE VIEW dbo.WithdrawnProducts AS

SELECT

Name,
P.Description,
C.CategoryName

FROM Products P

INNER JOIN Category C ON C.CategoryID = P.CategoryID

WHERE
P.IsAvailable = 0

GO
```

### 5.6. ActiveProducts

Aktualnie dostępne produkty.

```
CREATE VIEW dbo.ActiveProducts

AS

SELECT Name, P.Description, C.CategoryName
FROM Products P
INNER JOIN Category C ON C.CategoryID = P.CategoryID
WHERE
P.IsAvailable = 1

GO
```

### 5.7. Activetables

Stoliki dostępne dla klientów.

```
CREATE VIEW dbo.ActiveTables

AS

SELECT

TableID,

ChairAmount

FROM Tables

WHERE

isActive = 1

GO
```

### 5.8. WithdrawnTables

Stoliki niedostępne dla klientów.

```
CREATE VIEW dbo.[WithdrawnTables]

AS

SELECT

TableID,

ChairAmount

FROM Tables

WHERE TableID not in (SELECT TableID FROM ActiveTables)

GO
```

### 5.9. Not reserved tables

Niezarezerwowane stoliki.

```
CREATE VIEW dbo.[Not reserved Tables]
AS
        SELECT
            TableID,
            ChairAmount
        FROM Tables
        WHERE
            TableID NOT IN(
                SELECT
                    ReservationDetails.TableID
                FROM
                    ReservationDetails
                    INNER JOIN ReservationCompany RC ON RC.ReservationID =
ReservationDetails.ReservationID
                    INNER JOIN Reservation R2 ON RC.ReservationID =
R2.ReservationID
                WHERE
                     (getdate() >= startDate)
                    AND (getdate() <= endDate)</pre>
                    AND (
                         STATUS NOT LIKE 'cancelled'
                        AND STATUS NOT LIKE 'denied'
                    AND isActive = 1
            ) AND isActive = 1
    UNION
        SELECT
            TableID,
            ChairAmount
        FROM Tables
        WHERE
            TableID NOT IN(
                SELECT
                    ReservationDetails.TableID
                    ReservationDetails
                     INNER JOIN ReservationIndividual RC ON
```

# 5.10 TablesWeekly

Tygodniowy raport o stolikach: ilość rezerwacji konkretnych stolików.

```
CREATE VIEW dbo. Tables Weekly
AS
        SELECT
            YEAR (R2.StartDate) AS year,
            DATEPART (iso week, R2.StartDate) AS week,
            T. TableID AS table id,
            T.ChairAmount AS table size,
            COUNT (RD. TableID) AS how many times reserved
        FROM Tables T
            INNER JOIN ReservationDetails RD ON T.TableID = RD.TableID
            INNER JOIN ReservationIndividual RI ON RI.ReservationID =
RD.ReservationID
            INNER JOIN Reservation R2 ON RD.ReservationID =
R2.ReservationID
        WHERE
            (
                LOWER (STATUS) NOT LIKE 'cancelled'
                AND LOWER (STATUS) NOT LIKE 'denied'
            )
        GROUP BY
            YEAR (R2.StartDate),
            DATEPART (iso week, R2.StartDate),
            T.TableID,
            T.ChairAmount
    UNION
        SELECT
            YEAR (R2.StartDate) AS year,
            DATEPART (iso week, R2.StartDate) AS week,
            T. TableID AS table id,
            T.ChairAmount AS table size,
            COUNT (RD. TableID) AS how many times reserved
        FROM Tables T
            INNER JOIN ReservationDetails RD ON T.TableID = RD.TableID
            INNER JOIN ReservationCompany RI ON RI.ReservationID =
RD.ReservationID
            INNER JOIN Reservation R2 ON RD.ReservationID =
```

```
R2.ReservationID

WHERE

(
LOWER(STATUS) NOT LIKE 'cancelled'
AND LOWER(STATUS) NOT LIKE 'denied'
)

GROUP BY

YEAR(R2.StartDate),
DATEPART(iso_week, R2.StartDate),
T.TableID,
T.ChairAmount

GO
```

### 5.11. TablesMonthly

Miesięczny raport o stolikach: ilość rezerwacji konkretnych stolików.

```
CREATE VIEW dbo. TablesMonthly
        SELECT
            YEAR (R2.StartDate) AS year,
            DATEPART (MONTH, R2.StartDate) AS MONTH,
            T. TableID AS table id,
            T.ChairAmount AS table size,
            COUNT(RD.TableID) AS how many times reserved
        FROM Tables T
            INNER JOIN ReservationDetails RD ON T.TableID = RD.TableID
            INNER JOIN ReservationIndividual RI ON RI.ReservationID =
RD.ReservationID
            INNER JOIN Reservation R2 ON RD.ReservationID =
R2.ReservationID
        WHERE
                LOWER (STATUS) NOT LIKE 'cancelled'
                AND LOWER (STATUS) NOT LIKE 'denied'
            )
        GROUP BY
            YEAR (R2.StartDate),
            DATEPART (MONTH, R2.StartDate),
            T. TableID,
            T.ChairAmount
    UNION
        SELECT
            YEAR (R2.StartDate) AS year,
            DATEPART (MONTH, R2.StartDate) AS MONTH,
            T. TableID AS table id,
            T.ChairAmount AS table size,
            COUNT(RD.TableID) AS how many times reserved
        FROM
            Tables T
            INNER JOIN ReservationDetails RD ON T.TableID = RD.TableID
            INNER JOIN ReservationCompany RI ON RI.ReservationID =
RD.ReservationID
            INNER JOIN Reservation R2 ON RD.ReservationID =
```

```
R2.ReservationID

WHERE

(

LOWER(STATUS) NOT LIKE 'cancelled'

AND LOWER(STATUS) NOT LIKE 'denied'

)

GROUP BY

YEAR(R2.StartDate),

DATEPART(MONTH, R2.StartDate),

T.TableID,

T.ChairAmount

GO
```

### 5.12. Takeaways orders not picked Individuals

Nieodebrane zamówienia na wynos dla klientów indywidualnych, które są już gotowe.

```
CREATE VIEW dbo.[Takeaways orders not picked Individuals]
    SELECT
        PrefDate AS [Data odbioru],
        concat(LastName, ' ', FirstName) AS [Dane],
       Phone,
       Email,
        concat(CityName, ' ', street, ' ', LocalNr) AS [Adres],
        PostalCode,
       OrderID,
       OrderDate,
       OrderCompletionDate,
        OrderSum
    FROM OrdersTakeaways OT
        INNER JOIN Orders O ON OT.TakeawaysID = O.TakeawayID
        INNER JOIN Clients C ON O.ClientID = C.ClientID
        INNER JOIN IndividualClient IC ON C.ClientID = IC.ClientID
        INNER JOIN Person P ON IC.PersonID = P.PersonID
        INNER JOIN Address A ON C.AddressID = A.AddressID
        INNER JOIN Cities C2 ON A.CityID = C2.CityID
   WHERE
       LOWER (OrderStatus) LIKE 'Completed'
GO
```

# 5.13. Takeaways orders not picked Companies

Nieodebrane zamówienia na wynos dla firm, które są już gotowe.

```
CREATE VIEW dbo.[Takeaways orders not picked Companies]

AS

SELECT

PrefDate AS [Data odbioru],

CompanyName,

NIP,
```

```
isnull(KRS, 'Brak') AS [KRS],
        isnull(Regon, 'Brak') AS [Regon],
        Phone,
        Email,
        concat(CityName, ' ', street, ' ', LocalNr) AS [Adres],
        PostalCode,
        OrderID,
        OrderDate,
        OrderCompletionDate,
        OrderSum
    FROM OrdersTakeaways OT
        INNER JOIN Orders O ON OT.TakeawaysID = O.TakeawayID
        INNER JOIN Clients C ON O.ClientID = C.ClientID
        INNER JOIN Companies CO ON C.ClientID = CO.ClientID
        INNER JOIN Address A ON C.AddressID = A.AddressID
        INNER JOIN Cities C2 ON A.CityID = C2.CityID
    WHERE
        LOWER (OrderStatus) LIKE 'Completed'
GO
```

# 5.14. Takeaways orders Individuals

Aktualnie przygotowywane zamówienia dla klientów indywidualnych wraz z danymi kontaktowymi.

```
CREATE VIEW dbo. [Takeaways orders Individuals]
AS
    SELECT
        PrefDate AS [Data odbioru],
        concat(LastName, ' ', FirstName) AS [Dane],
        Phone,
        Email,
        concat(CityName, ' ', street, ' ', LocalNr) AS [Adres],
        PostalCode,
        OrderID,
        OrderDate,
        OrderCompletionDate,
        OrderStatus,
        OrderSum
    FROM OrdersTakeaways OT
        INNER JOIN Orders O ON OT. TakeawaysID = O. TakeawayID
        INNER JOIN Clients C ON O.ClientID = C.ClientID
        INNER JOIN IndividualClient IC ON C.ClientID = IC.ClientID
        INNER JOIN Person P ON IC.PersonID = P.PersonID
        INNER JOIN Address A ON C.AddressID = A.AddressID
        INNER JOIN Cities C2 ON A.CityID = C2.CityID
    WHERE
        (
            (
                (getdate() >= OrderDate)
                AND (getdate() <= OrderCompletionDate)</pre>
            )
            OR (
                OrderCompletionDate IS NULL
```

```
AND (getdate() >= OrderDate)
)
GO
```

# 5.15. Takeaways orders comapnies

Aktualnie przygotowywane zamówienia dla firm wraz z danymi kontaktowymi.

```
CREATE VIEW dbo.[Takeaways orders companies]
AS
    SELECT
        PrefDate AS [Data odbioru],
        CompanyName,
        NIP,
        isnull(KRS, 'Brak') AS [KRS],
        isnull(Regon, 'Brak') AS [Regon],
        Phone,
        Email,
        concat(CityName, ' ', street, ' ', LocalNr) AS [Adres],
        PostalCode,
        OrderID,
        OrderDate,
        OrderCompletionDate,
        OrderStatus,
        OrderSum
    FROM OrdersTakeaways OT
        INNER JOIN Orders O ON OT.TakeawaysID = O.TakeawayID
        INNER JOIN Clients C ON O.ClientID = C.ClientID
        INNER JOIN Companies CO ON C.ClientID = CO.ClientID
        INNER JOIN Address A ON C.AddressID = A.AddressID
        INNER JOIN Cities C2 ON A.CityID = C2.CityID
    WHERE
        (
            (
                (getdate() >= OrderDate)
                AND (getdate() <= OrderCompletionDate)</pre>
            )
            OR (
                OrderCompletionDate IS NULL
                AND (getdate() >= OrderDate)
        )
GO
```

### 5.16. ReservationInfo

Informacje o nieodwołanych rezerwacjach.

```
CREATE VIEW ReservationInfo
AS
```

```
SELECT

R.ReservationID,

TableID,

StartDate,

EndDate

FROM

Reservation R

LEFT OUTER JOIN ReservationDetails RD ON RD.ReservationID =

R.ReservationID

WHERE

LOWER(STATUS) NOT LIKE 'cancelled'

GO
```

#### 5.17. ResarvationDenied

Informacje o odrzuconych rezerwacjach.

```
CREATE VIEW ReservationDenied

AS

SELECT

R.ReservationID,
TableID,
ClientID,
StartDate,
EndDate

FROM
Reservation R
LEFT OUTER JOIN ReservationDetails RD ON RD.ReservationID =

R.ReservationID
INNER JOIN Orders O ON O.ReservationID = R.ReservationID
WHERE
STATUS LIKE 'denied'

GO
```

# 5.18. PendingReservations

Rezerwacje w toku.

```
CREATE VIEW dbo.PendingReservations AS

SELECT

R.ReservationID,
startDate,
endDate,
OrderID,
OrderSum

FROM
Reservation R
INNER JOIN Orders O ON R.ReservationID = O.ReservationID
WHERE
STATUS LIKE 'Pending'

GO
```

### 5.19. OrdersReport

Roczny, miesięczny, tygodniowy raport o zamówieniach.

```
CREATE VIEW dbo.OrdersReport AS
    SELECT
        isnull(convert(varchar(50), YEAR(0.OrderDate), 120), 'Podsumowanie
po latach') AS [Year],
        isnull(convert(varchar(50), MONTH(0.OrderDate), 120),
'Podsumowanie po miesiacach') AS [Month],
        isnull(convert(varchar(50), DATEPART(iso week , O.OrderDate),
120), 'Podsumowanie po tygodniach') AS [WEEK],
        COUNT (O.OrderID) AS [ilosć zamówień],
        SUM(OD.Quantity * M.Price) AS [suma przychodów]
    FROM Orders AS O
        INNER JOIN OrderDetails OD ON OD.OrderID = O.OrderID
        INNER JOIN Products P ON P.ProductID = OD.ProductID
        INNER JOIN MenuDetails M ON M.ProductID = P.ProductID
    GROUP BY ROLLUP (YEAR (O. OrderDate), MONTH (O. OrderDate),
DATEPART(iso week, O.OrderDate))
GO
```

### 5.20. individualClientExpensesReport

Roczny, miesięczny, tygodniowy raport o kwotach wydanych przez klientów indywidualnych

```
CREATE VIEW dbo.IndividualClientExpensesReport
AS
    SELECT
        DISTINCT isnull(
            CONVERT(varchar(50), YEAR(0.OrderDate), 120),
            'Podsumowanie Roku'
        ) AS [Year],
        isnull(
            CONVERT (varchar (50), MONTH (O.OrderDate), 120),
            'Podsumowanie miesiaca'
        ) AS [Month],
        isnull(
            CONVERT (
                varchar(50),
                DATEPART (iso week, O.OrderDate),
            ),
            'Podsumowanie tygodnia'
        ) AS [WEEK],
        C.ClientID,
        CONCAT(P2.LastName, ' ', P2.FirstName) AS [Dane],
        C. Phone,
        C.Email,
        concat(C2.CityName, ' ', A.street, ' ', A.LocalNr) AS [Adres],
        A.PostalCode,
        ISNULL(SUM(0.OrderSum), 0) AS [wydane środki]
    FROM Orders O
```

```
RIGHT JOIN Clients C ON C.ClientID = O.ClientID
        INNER JOIN IndividualClient IC ON IC.ClientID = C.ClientID
        INNER JOIN Person P2 ON P2.PersonID = IC.PersonID
        INNER JOIN Address A ON A.AddressID = C.AddressID
        INNER JOIN Cities C2 on C2.CityID = A.CityID
    GROUP BY
        GROUPING SETS (
            (
                YEAR (O. OrderDate),
                MONTH (O. OrderDate),
                DATEPART (iso week, O.OrderDate),
                CONCAT(P2.LastName, ' ', P2.FirstName),
                C.ClientID,
                C. Phone,
                C.Email,
                concat(C2.CityName, ' ', A.street, ' ', A.LocalNr),
                A.PostalCode
            ),
                YEAR (O. OrderDate),
                MONTH (O. OrderDate),
                CONCAT(P2.LastName, ' ', P2.FirstName),
                C.ClientID,
                C. Phone,
                C.Email,
                concat(C2.CityName, ' ', A.street, ' ', A.LocalNr),
                A.PostalCode
            ),
                CONCAT(P2.LastName, ' ', P2.FirstName),
                C.ClientID,
                C.Phone,
                C.Email,
                concat(C2.CityName, ' ', A.street, ' ', A.LocalNr),
                A.PostalCode,
                YEAR (O. OrderDate)
            )
        )
GO
```

### 5.21 companyExpensesReport

Roczny, miesięczny, tygodniowy raport o kwotach wydanych przez firmy.

```
CREATE VIEW dbo.companyExpensesReport
AS

SELECT
YEAR(O.OrderDate) AS [Rok],
MONTH(O.OrderDate) AS [Miesiac],
DATEPART(iso_week , O.OrderDate) AS [Tydzień],
C.ClientID,
C2.CompanyName,
C2.NIP,
ISNULL(cast(C2.KRS AS varchar), 'Brak') AS [KRS],
```

```
ISNULL(cast(C2.Regon AS varchar), 'Brak') AS [Regon],
        C. Phone,
        C.Email,
        CONCAT(C2.CityName, ' ', A.street, ' ', A.LocalNr) AS [Adres],
        A.PostalCode,
        SUM (O.OrderSum) AS [wydane środki]
    FROM Orders O
        INNER JOIN Clients C ON C.ClientID = O.ClientID
        INNER JOIN Companies C2 ON C2.ClientID = C.ClientID
        INNER JOIN Address A ON A.AddressID = C.AddressID
        INNER JOIN Cities C2 on C2.CityID = A.CityID
    GROUP BY
        GROUPING SETS (
            (
                YEAR (O. OrderDate),
                MONTH (O. OrderDate),
                DATEPART (iso week , O.OrderDate),
                C.ClientID,
                C2.CompanyName,
                C2.NIP,
                ISNULL(cast(C2.KRS AS varchar), 'Brak'),
                ISNULL(cast(C2.Regon AS varchar), 'Brak'),
                C. Phone,
                C.Email,
                CONCAT(C2.CityName, ' ', A.street, ' ', A.LocalNr),
                A.PostalCode
                YEAR (O. OrderDate),
                MONTH (O. OrderDate),
                C.ClientID,
                C2.CompanyName,
                C2.NIP,
                ISNULL(cast(C2.KRS AS varchar), 'Brak'),
                ISNULL(cast(C2.Regon AS varchar), 'Brak'),
                C. Phone,
                C.Email,
                CONCAT(C2.CityName, ' ', A.street, ' ', A.LocalNr),
                A.PostalCode
            ),
                YEAR (O. OrderDate),
                C.ClientID,
                C2.CompanyName,
                C2.NIP,
                ISNULL(cast(C2.KRS AS varchar), 'Brak'),
                ISNULL(cast(C2.Regon AS varchar), 'Brak'),
                C. Phone,
                C.Email,
                CONCAT(C2.CityName, ' ', A.street, ' ', A.LocalNr),
                A.PostalCode
            )
        )
GO
```

### 5.22. numberOfIndividualClients

Roczny, miesięczny, tygodniowy raport o ilości obsłużonych klientów indywidualnych.

```
CREATE VIEW dbo.numberOfIndividualClients
AS
    SELECT
        YEAR (O.OrderDate) AS [Rok],
        MONTH (O. OrderDate) AS [Miesiac],
        DATEPART (iso week , O. OrderDate) AS [Tydzień],
        COUNT (DISTINCT C.ClientID) AS [Ilosé klientów indywidualnych]
    FROM Orders O
        INNER JOIN Clients C ON C.ClientID = O.ClientID
        INNER JOIN IndividualClient IC ON IC.ClientID = C.ClientID
    GROUP BY
        GROUPING SETS (
            (
                YEAR (O. OrderDate),
                MONTH (O. OrderDate),
                DATEPART (iso week , O.OrderDate)
            (YEAR (O.OrderDate), MONTH (O.OrderDate)),
            (YEAR (O. OrderDate))
        )
GO
```

# 5.23. numberOfCompanies

Roczny, miesięczny, tygodniowy raport o ilości obsłużonych firm.

```
CREATE VIEW dbo.numberOfCompanies
AS
    SELECT
        YEAR (O. OrderDate) AS [Rok],
        MONTH (O. OrderDate) AS [Miesiac],
        DATEPART (iso week , O.OrderDate) AS [Tydzień],
        COUNT (DISTINCT C.ClientID) AS [Ilosć zamawiających firm]
    FROM Orders O
        INNER JOIN Clients C ON C.ClientID = O.ClientID
        INNER JOIN Companies C2 ON C2.ClientID = C.ClientID
    GROUP BY
        GROUPING SETS (
             (
                YEAR (O. OrderDate),
                MONTH (O. OrderDate),
                DATEPART (iso week, O.OrderDate)
            (YEAR (O.OrderDate), MONTH (O.OrderDate)),
            (YEAR (O.OrderDate))
        )
GO
```

### 5.24. individualClientsNumberOfOrders

Roczny, miesięczny, tygodniowy raport o ilości złożonych zamówień przez klientów indywidualnych.

```
CREATE VIEW dbo.individualClientNumberOfOrders
AS
    SELECT
        YEAR (O. OrderDate) AS [Rok],
        MONTH (O.OrderDate) AS [Miesiac],
        DATEPART (iso week , O.OrderDate) AS [Tydzień],
        C.ClientID,
        CONCAT (P2.LastName, ' ', P2.FirstName) AS [Dane],
        C. Phone,
        C.Email,
        concat(C2.CityName, ' ', A.street, ' ', A.LocalNr) AS [Adres],
        A.PostalCode,
        COUNT (DISTINCT O.OrderID) AS [Ilosé złożonych zamówień]
    FROM Orders O
        INNER JOIN Clients C ON C.ClientID = O.ClientID
        INNER JOIN IndividualClient IC ON IC.ClientID = C.ClientID
        INNER JOIN Person P2 ON P2.PersonID = IC.PersonID
        INNER JOIN Address A ON A.AddressID = C.AddressID
        INNER JOIN Cities C2 on C2.CityID = A.CityID
    GROUP BY
        GROUPING SETS (
            (
                YEAR (O. OrderDate),
                MONTH (O. OrderDate),
                DATEPART (iso week , O.OrderDate),
                C.ClientID,
                CONCAT(P2.LastName, ' ', P2.FirstName),
                C. Phone,
                C.Email,
                concat(C2.CityName, ' ', A.street, ' ', A.LocalNr) ,
                A.PostalCode
            ),
                YEAR (O. OrderDate),
                MONTH (O. OrderDate),
                C.ClientID,
                CONCAT(P2.LastName, ' ', P2.FirstName),
                C. Phone,
                C.Email,
                concat(C2.CityName, ' ', A.street, ' ', A.LocalNr) ,
                A.PostalCode
            ),
                YEAR (O. OrderDate),
                C.ClientID,
                CONCAT (P2.LastName, ' ', P2.FirstName),
                C. Phone,
                C.Email,
                concat(C2.CityName, ' ', A.street, ' ', A.LocalNr) ,
                A.PostalCode
```

```
)
GO
```

# 5.25. companiesNumberOfOrders

Roczny, miesięczny, tygodniowy raport o ilości złożonych zamówień przez firmy.

```
CREATE VIEW dbo.companiesNumberOfOrders
AS
    SELECT
        YEAR (O. OrderDate) AS [Rok],
        MONTH (O. OrderDate) AS [Miesiac],
        DATEPART (iso week, O.OrderDate) AS [Tydzień],
        C.ClientID,
        C2.CompanyName,
        C2.NIP,
        ISNULL(cast(C2.KRS AS varchar), 'Brak') AS [KRS],
        ISNULL(cast(C2.Regon AS varchar), 'Brak') AS [Regon],
        C. Phone,
        C.Email,
        CONCAT(C3.CityName, ' ', A.street, ' ', A.LocalNr) AS [Adres],
        A.PostalCode,
        COUNT (DISTINCT O.OrderID) AS [Ilość złożonych zamówień]
    FROM Orders O
        INNER JOIN Clients C ON C.ClientID = O.ClientID
        INNER JOIN Companies C2 ON C2.ClientID = C.ClientID
        INNER JOIN Address A ON A.AddressID = C.AddressID
        INNER JOIN Cities C3 on C3.CityID = A.CityID
    GROUP BY
        GROUPING SETS (
            (
                YEAR (O. OrderDate),
                MONTH (O. OrderDate),
                DATEPART (iso week, O.OrderDate),
                C.ClientID,
                C2.CompanyName,
                C2.NIP,
                ISNULL(cast(C2.KRS AS varchar), 'Brak') ,
                ISNULL(cast(C2.Regon AS varchar), 'Brak'),
                C. Phone,
                C.Email,
                CONCAT (C3.CityName, ' ', A.street, ' ', A.LocalNr),
                A.PostalCode
            ),
                YEAR (O. OrderDate),
                MONTH (O. OrderDate),
                C.ClientID,
                C2.CompanyName,
                C2.NIP,
                ISNULL(cast(C2.KRS AS varchar), 'Brak') ,
                ISNULL(cast(C2.Regon AS varchar), 'Brak'),
                C. Phone,
                C.Email,
                CONCAT(C3.CityName, ' ', A.street, ' ', A.LocalNr),
```

```
A.PostalCode

),

(

YEAR(O.OrderDate),

C.ClientID,

C2.CompanyName,

C2.NIP,

ISNULL(cast(C2.KRS AS varchar), 'Brak'),

ISNULL(cast(C2.Regon AS varchar), 'Brak'),

C.Phone,

C.Email,

CONCAT(C3.CityName, '', A.street, '', A.LocalNr),

A.PostalCode

)

GO
```

# 5.26. individualClientsWhoNotPayForOrders

Klienci indywidualni, którzy mają nieopłacone zamówienia wraz z kwotą należności.

```
CREATE VIEW dbo.IndividualClientsWhoNotPayForOrders
AS
    SELECT
       C.ClientID,
        CONCAT(P.LastName, ' ', P.FirstName) AS [Dane],
        C. Phone,
       C.Email,
        concat(C2.CityName, ' ', A.street, ' ', A.LocalNr) AS [Adres],
        A.PostalCode,
       O.OrderDate,
        SUM(O.OrderSum) AS [money to pay]
    FROM Clients C
        INNER JOIN IndividualClient IC ON IC.ClientID = C.ClientID
        INNER JOIN Person P ON P.PersonID = IC.PersonID
        INNER JOIN Orders O ON O.ClientID = C.ClientID
        INNER JOIN PaymentStatus PS ON PS.PaymentStatusID =
O.PaymentStatusID
        INNER JOIN Address A ON A.AddressID = C.AddressID
        INNER JOIN Cities C2 ON C2.CityID = A.CityID
    WHERE
        (PS.PaymentStatusName LIKE 'Unpaid')
    GROUP BY
        C.ClientID,
        CONCAT(P.LastName, ' ', P.FirstName),
        C. Phone,
        C.Email,
        concat(C2.CityName, ' ', A.street, ' ', A.LocalNr),
       A.PostalCode,
        O.OrderDate
GO
```

### 5.27. companiesWhoNotPayForOrders

Firmy, które mają nieopłacone zamówienia wraz z kwotą należności.

```
CREATE VIEW dbo.CompaniesWhoNotPayForOrders
AS
    SELECT
       C.ClientID,
        C2.CompanyName,
        C2.NIP,
        ISNULL(C2.KRS, 'Brak') AS [KRS],
        ISNULL(C2.Regon, 'Brak') AS [Regon],
        C. Phone,
        C.Email,
        CONCAT(C3.CityName, ' ', A.street, ' ', A.LocalNr) AS [Adres],
       A.PostalCode,
        SUM(O.OrderSum) AS [money to pay]
    FROM Clients C
        INNER JOIN Orders O ON O.ClientID = C.ClientID
        INNER JOIN Companies C2 ON C2.ClientID = C.ClientID
        INNER JOIN PaymentStatus PS ON PS.PaymentStatusID =
O.PaymentStatusID
        INNER JOIN Address A ON A.AddressID = C.AddressID
        INNER JOIN Cities C3 ON C3.CityID = A.CityID
    WHERE
        (PS.PaymentStatusName LIKE 'Unpaid')
    GROUP BY
        C.ClientID,
        C2.CompanyName,
        C2.NIP,
        ISNULL(C2.KRS, 'Brak'),
        ISNULL(C2.Regon, 'Brak'),
        C. Phone,
        C.Email,
        CONCAT(C3.CityName, '', A.street, '', A.LocalNr),
        A.PostalCode
GO
```

### 5.28. ordersOnSite

Zamówienia na miejscu, które są przygotowywane.

```
CREATE VIEW dbo.ordersOnSite

AS

SELECT

O.OrderID,
O.ClientID,
C.Phone,
C.Email,
OD.Quantity,
P.Name

FROM Orders O

INNER JOIN Clients C ON C.ClientID = O.ClientID
INNER JOIN OrderDetails OD ON OD.OrderID = O.OrderID
INNER JOIN Products P ON P.ProductID = OD.ProductID
```

```
WHERE
(O.TakeawayID IS NULL)
AND (O.OrderStatus LIKE 'accepted')
GO
```

# 5.29. takeawayOrdersInProgressIndividual

Zamówienia na wynos, które są przygotowywane dla klientów indywidualnych.

```
CREATE VIEW dbo.takeawayOrdersInProgressIndividual
AS
    SELECT
        O.OrderID,
        O.ClientID,
        C. Phone,
        C.Email,
        concat(P.LastName, ' ', P.FirstName) AS [Dane],
        OD. Quantity,
        P.Name,
        OT.PrefDate
    FROM Orders O
        INNER JOIN Clients C ON C.ClientID = O.ClientID
        INNER JOIN IndividualClient IC ON IC.ClientID = C.ClientID
        INNER JOIN Person P ON P.PersonID = IC.PersonID
        INNER JOIN OrderDetails OD ON OD.OrderID = O.OrderID
        INNER JOIN Products P ON P.ProductID = OD.ProductID
        INNER JOIN OrdersTakeaways OT ON OT. TakeawaysID = O. TakeawayID
    WHERE
        (O.OrderStatus LIKE 'accepted')
GO
```

# 5.30. takeawayOrdersInProgressCompanies

Zamówienia na wynos, które są przygotowywane dla firm.

```
CREATE VIEW dbo.takeawayOrdersInProgressCompanies
AS
    SELECT
        O.OrderID,
        O.ClientID,
        C. Phone,
        C.Email,
        C2.CompanyName,
        C2.NIP,
        ISNULL(cast(C2.KRS AS varchar), 'Brak') AS [KRS],
        ISNULL(cast(C2.Regon AS varchar), 'Brak') AS [Regon],
        OD. Quantity,
        P.Name,
        OT.PrefDate
    FROM Orders O
        INNER JOIN Clients C ON C.ClientID = O.ClientID
        INNER JOIN Companies C2 ON C2.ClientID = C.ClientID
```

```
INNER JOIN OrderDetails OD ON OD.OrderID = O.OrderID
INNER JOIN Products P ON P.ProductID = OD.ProductID
INNER JOIN OrdersTakeaways OT ON OT.TakeawaysID = O.TakeawayID
WHERE
(O.OrderStatus LIKE 'accepted')
GO
```

#### 5.31. OrdersInformationIndividualClient

Informacje o zamówieniach dla klientów indywidualnych.

```
CREATE VIEW dbo.OrdersInformationIndividualClient
    SELECT
       O.OrderID,
       O.OrderStatus,
       PS.PaymentStatusName,
        SUM (O.OrderSum) AS [Wartość zamówienia],
        C. Phone,
        C.Email,
        CONCAT(P.LastName, ' ', P.FirstName) AS [Dane],
        CONCAT(C2.CityName, ' ', A.street, ' ', A.LocalNr) AS [Adres],
       A.PostalCode
    FROM Orders O
        INNER JOIN Clients C ON C.ClientID = O.ClientID
        INNER JOIN IndividualClient IC ON IC.ClientID = C.ClientID
        INNER JOIN PaymentStatus PS ON PS.PaymentStatusID =
O.PaymentStatusID
       INNER JOIN Person P ON P.PersonID = IC.PersonID
        INNER JOIN Address A ON A.AddressID = C.AddressID
        INNER JOIN Cities C2 ON A.CityID = C2.CityID
    GROUP BY
       O.OrderID,
       O.OrderStatus,
       PS.PaymentStatusName,
        C. Phone,
        C.Email,
        CONCAT(P.LastName, ' ', P.FirstName),
        CONCAT(C2.CityName, ' ', A.street, ' ', A.LocalNr),
        A.PostalCode
GO
```

# 5.32. OrdersInformationCompany

Informacje o zamówieniach dla firm.

```
CREATE VIEW dbo.OrdersInformationCompany
AS

SELECT

O.OrderID,

O.OrderStatus,

PS.PaymentStatusName,

SUM(O.OrderSum) AS [Wartosé zamówienia],
```

```
C. Phone,
        C.Email,
        C2.CompanyName,
        C2.NIP,
        ISNULL(cast(C2.KRS AS varchar), 'Brak') AS [KRS],
        ISNULL(cast(C2.Regon AS varchar), 'Brak') AS [Regon],
        CONCAT(C3.CityName, '', A.street, '', A.LocalNr) AS [Adres],
        A.PostalCode
    FROM Orders O
        INNER JOIN Clients C ON C.ClientID = O.ClientID
        INNER JOIN PaymentStatus PS ON PS.PaymentStatusID =
O.PaymentStatusID
        INNER JOIN Companies C2 ON C2.ClientID = C.ClientID
        INNER JOIN Address A ON A.AddressID = C.AddressID
       INNER JOIN Cities C3 ON A.CityID = C3.CityID
    GROUP BY
       O.OrderID,
        O.OrderStatus,
        PS.PaymentStatusName,
        C. Phone,
        C.Email,
        C2.CompanyName,
        C2.NIP,
        ISNULL(cast(C2.KRS AS varchar), 'Brak'),
        ISNULL(cast(C2.Regon AS varchar), 'Brak'),
       CONCAT(C3.CityName, ' ', A.street, ' ', A.LocalNr),
        A.PostalCode
GO
```

### 5.33. PendingReservationsCompanies

Rezerwacje w toku dla firm.

```
CREATE VIEW dbo.PendingReservationsCompanies

AS

SELECT

R.ReservationID,
startDate,
endDate,
OrderID,
OrderSum
FROM Reservation R
INNER JOIN ReservationCompany RC ON RC.ReservationID =

R.ReservationID
INNER JOIN Orders O ON R.ReservationID = O.ReservationID
WHERE
LOWER(STATUS) LIKE 'pending'

GO
```

# 5.34. PendingReservationIndividual

Rezerwacje w toku dla klientów indywidualnych.

```
CREATE VIEW dbo.PendingReservationsIndividual AS

SELECT

R.ReservationID,
startDate,
endDate,
OrderID,
OrderSum
FROM Reservation R
INNER JOIN ReservationIndividual RC ON RC.ReservationID =
R.ReservationID
INNER JOIN Orders O ON R.ReservationID = O.ReservationID
WHERE
LOWER(STATUS) LIKE 'pending'
GO
```

# 5.35. ReservationAcceptedBy

Kto potwierdził dane zamówienie.

```
CREATE VIEW dbo.ReservationAcceptedBy

AS

SELECT

concat(LastName, ' ', FirstName) AS Dane,

Position,

Email,

Phone

FROM Staff

INNER JOIN Reservation R2 ON Staff.StaffID = R2.StaffID

WHERE

LOWER(STATUS) LIKE 'accepted'

GO
```

# 5.36. ReservationSummary

Podsumowanie rezerwacji.

```
CREATE VIEW dbo.ReservationSummary

AS

SELECT

O.ClientID AS 'Numer clienta',
startDate,
endDate,
CONVERT(TIME, endDate - startDate, 108) AS 'Czas trwania',
O.OrderSum,
O.OrderDate,
O.OrderCompletionDate,
OD.Quantity,
RD.TableID

FROM Reservation
INNER JOIN Orders O ON Reservation.ReservationID =
O.ReservationID
```

```
INNER JOIN OrderDetails OD ON O.OrderID = OD.OrderID
            INNER JOIN ReservationCompany RC ON Reservation.ReservationID
= RC.ReservationID
            INNER JOIN ReservationDetails RD ON RC.ReservationID =
RD.ReservationID
        WHERE
            LOWER (STATUS) NOT LIKE 'denied' AND LOWER (STATUS) NOT LIKE
'cancelled' AND LOWER(O.OrderStatus) NOT LIKE 'denied' AND
LOWER (O. OrderStatus) NOT LIKE 'cancelled'
    UNION
        SELECT
            O.ClientID AS 'Numer clienta',
            startDate,
            endDate,
            CONVERT (TIME, endDate - startDate, 108) AS 'Czas trwania',
            O.OrderSum,
            O. OrderDate,
            O.OrderCompletionDate,
            OD. Quantity,
            RD. TableID
        FROM Reservation
            INNER JOIN Orders O ON Reservation.ReservationID =
O.ReservationID
            INNER JOIN OrderDetails OD ON O.OrderID = OD.OrderID
            INNER JOIN ReservationIndividual RC ON
Reservation.ReservationID = RC.ReservationID
            INNER JOIN ReservationDetails RD ON RC.ReservationID =
RD.ReservationID
        WHERE
            LOWER (STATUS) NOT LIKE 'denied' AND LOWER (STATUS) NOT LIKE
'cancelled' AND LOWER(O.OrderStatus) NOT LIKE 'denied' AND
LOWER (O. OrderStatus) NOT LIKE 'cancelled'
GO
```

### 5.37. ProductsSummaryDaily

Raport o ilości zamówionych produktów w danych dniach.

```
CREATE VIEW dbo.ProductsSummaryDaily
AS
    SELECT
        P.Name,
        P.Description,
        cast(O.OrderDate AS DATE) AS 'Dzien',
        count(OD.ProductID) AS 'Liczba zamowionych produktow'
    FROM Products P
        INNER JOIN OrderDetails OD ON P.ProductID = OD.ProductID
        INNER JOIN Orders O ON OD.OrderID = O.OrderID
    WHERE
            LOWER (O. OrderStatus) NOT LIKE 'denied' AND
LOWER (O. OrderStatus) NOT LIKE 'cancelled'
    GROUP BY
        P.Name,
        P.Description,
```

```
cast(O.OrderDate AS DATE)
GO
```

# 5.38. ProductsSummaryWeekly

Raport o ilości zamówionych produktów w danych dniach.

```
CREATE VIEW dbo.ProductsSummaryWeekly
AS
    SELECT
        P.Name,
        P.Description,
        DATEPART (iso week, cast (O.OrderDate AS DATE)) AS 'Tydzien',
        DATEPART (YEAR, cast (O.OrderDate AS DATE)) AS 'Rok',
        count(OD.ProductID) AS 'Liczba produktow'
    FROM Products P
        INNER JOIN OrderDetails OD ON P.ProductID = OD.ProductID
        INNER JOIN Orders O ON OD.OrderID = O.OrderID
    WHERE
        LOWER (O. OrderStatus) NOT LIKE 'denied' AND LOWER (O. OrderStatus)
NOT LIKE 'cancelled'
    GROUP BY
        P.Name,
        P.Description,
        DATEPART (iso week, cast (O.OrderDate AS DATE)),
        DATEPART(YEAR, cast(O.OrderDate AS DATE))
GO
```

# 5.39. Products summary monthly

Raport o ilości zamówionych produktów w danych miesiącach.

```
CREATE VIEW dbo.ProductsSummaryMonthly
AS
    SELECT
        P.Name,
        P.Description,
        DATEPART (MONTH, cast (O.OrderDate AS DATE)) AS 'Miesiac',
        DATEPART (YEAR, cast (O.OrderDate AS DATE)) AS 'Rok',
        count(OD.ProductID) AS 'Liczba zamowionych produktow'
    FROM Products P
        INNER JOIN OrderDetails OD ON P.ProductID = OD.ProductID
        INNER JOIN Orders O ON OD.OrderID = O.OrderID
    WHERE
        LOWER (O. OrderStatus) NOT LIKE 'denied' AND LOWER (O. OrderStatus)
NOT LIKE 'cancelled'
    GROUP BY
        P.Name,
        P.Description,
        DATEPART (MONTH, cast (O.OrderDate AS DATE)),
        DATEPART (YEAR, cast (O.OrderDate AS DATE))
GO
```

### 5.40. WholssuedAnOrder

Kto wydał dane zamówienia.

```
CREATE OR ALTER VIEW dbo.WhoIssuedAnOrder

AS

SELECT

FirstName + ' ' + LastName AS Name,
OrderID AS id

FROM Staff

INNER JOIN Orders O ON Staff.StaffID = O.staffID
WHERE

LOWER (Position) LIKE 'waiter'
OR LOWER (Position) LIKE 'waitress';

GO
```

### 5.41. AllTakeaways

Wszystkie zamówienia na wynos.

```
CREATE OR ALTER VIEW dbo.AllTakeaways
AS
    SELECT
        TakeawayID,
        PrefDate,
        OrderID,
        ClientID,
        PaymentStatusID,
        concat(S.LastName, ' ', S.FirstName) AS 'Dane kelnera',
        Position,
        OrderSum,
        OrderDate,
        OrderCompletionDate,
        OrderStatus
    FROM OrdersTakeaways
        JOIN Orders O ON OrdersTakeaways.TakeawaysID = O.TakeawayID
        JOIN Staff S ON O.staffID = S.StaffID
GO
```

# 5.42. OrdersToPrepare

Aktualnie przygotowywane zamówienia.

```
CREATE OR ALTER VIEW dbo.OrdersToPrepare

AS

SELECT OrderID, ClientID, ISNULL(CAST(TakeawayID AS varchar), '') as

TakeawayID, ISNULL(CAST(ReservationID AS varchar), '') as ReservationID,

PaymentStatusName, PM.PaymentName,

CONCAT(S.LastName, ' ',S.FirstName) AS 'Dane kelnera',

OrderSum, OrderDate

FROM Orders O

INNER JOIN PaymentStatus PS ON PS.PaymentStatusID =
```

#### 5.43. CurrentDiscounts

Aktualnie nałożone zniżki na klientów.

```
CREATE OR ALTER VIEW CurrentDiscounts
AS
    SELECT
        FirstName,
        LastName,
        IC.ClientID,
        DiscountID,
        AppliedDate,
        startDate,
        endDate,
        DiscountType,
        DiscountValue,
        MinimalOrders,
        MinimalAggregateValue,
        ValidityPeriod
    FROM DiscountsVar
        INNER JOIN Discounts ON DiscountsVar.VarID = Discounts.VarID
        INNER JOIN IndividualClient IC ON Discounts.ClientID = IC.ClientID
        INNER JOIN Person P ON P.PersonID = IC.PersonID
    WHERE
        (
            (
                (getdate() >= startDate)
                AND (getdate() <= endDate)</pre>
            )
            OR (
                 (getdate() >= startDate)
                AND (endDate IS NULL)
        )
GO
```

# 5.44. AllDiscounts

Wszystkie przyznane zniżki.

```
CREATE OR ALTER VIEW AllDiscounts
AS
    SELECT
        IC.PersonID,
        LastName,
        FirstName,
        IC.ClientID,
        DiscountsVar.VarID,
        DiscountType,
        MinimalOrders,
        MinimalAggregateValue,
        ValidityPeriod,
        DiscountValue,
        startDate,
        endDate,
        DiscountID,
        AppliedDate
    FROM DiscountsVar
        INNER JOIN Discounts ON DiscountsVar.VarID = Discounts.VarID
        INNER JOIN IndividualClient IC ON Discounts.ClientID = IC.ClientID
        INNER JOIN Person P ON P.PersonID = IC.PersonID
GO
```

# 5.45. DishesInProgressTakeaways

Dania na wynos wymagane na dzisiaj.

```
CREATE OR ALTER VIEW DishesInProgressTakeaways
AS
    SELECT
        Name,
        count(Products.ProductID) AS 'Liczba zamowien',
        sum(Quantity) AS 'Liczba sztuk'
    FROM Products
        INNER JOIN OrderDetails OD ON Products.ProductID = OD.ProductID
        INNER JOIN Orders ON OD.OrderID = Orders.OrderID
        INNER JOIN OrdersTakeaways OT ON Orders.TakeawayID =
OT.TakeawaysID
    WHERE
        (
                (getdate() >= OrderDate)
                AND (getdate() <= OrderCompletionDate)</pre>
            )
        )
        AND (
            LOWER (Orders.OrderStatus) NOT LIKE 'denied'
            OR LOWER (Orders. OrderStatus) NOT LIKE 'cancelled'
    GROUP BY Name
GO
```

### 5.46. DishesInProgressReservation

Dania wymagane na dzisiaj w rezerwacji.

```
CREATE OR ALTER VIEW DishesInProgressReservation
AS
    SELECT
        Name,
        count(Products.ProductID) AS 'Liczba zamowien',
        sum(Quantity) AS 'Liczba sztuk'
    FROM Products
        INNER JOIN OrderDetails OD ON Products.ProductID = OD.ProductID
        INNER JOIN Orders ON OD.OrderID = Orders.OrderID
        INNER JOIN Reservation R2 ON Orders.ReservationID =
R2.ReservationID
    WHERE
        (
            (
                (getdate() >= OrderDate)
                AND (getdate() <= OrderCompletionDate)</pre>
        )
        AND LOWER (Orders.OrderStatus) NOT LIKE 'denied'
        AND (
            LOWER (R2.Status) NOT LIKE 'denied'
            OR LOWER(R2.Status) NOT LIKE 'cancelled'
    GROUP BY Name
GO
```

### 5.47. ProductsInformation

Informacje o produktach.

```
CREATE VIEW dbo.ProductsInformation
AS
    SELECT Name,
            P.Description,
            CategoryName,
            IIF(IsAvailable = 1, 'Aktywne', 'Nieaktywne') AS 'Czy produkt
aktywny',
            IIF(P.ProductID IN (SELECT ProductID FROM MenuDetails M
                                INNER JOIN Menu M2 on M2.MenuID = M.MenuID
                            WHERE ((startDate >= getdate()) AND (endDate
>= getdate()))
                                OR ((startDate >= getdate()) AND endDate
IS NULL) AND P.ProductID = M.ProductID), 'Aktualnie w menu', 'Nie jest w
menu') as 'Czy jest aktualnie w menu',
            count(OD.ProductID) as 'Ilosc zamowien danego produktu'
    FROM Products P
       LEFT JOIN OrderDetails OD ON P.ProductID = OD.ProductID
        INNER JOIN Category C ON C.CategoryID = P.CategoryID
   GROUP BY Name, P.Description, CategoryName, P.ProductID, IsAvailable
GO
```

#### 5.48. MealMenuInfo

Informacje o menu.

```
CREATE VIEW MealMenuInfo
AS
    SELECT
        DISTINCT M.MenuID,
        M2.startDate,
        M2.endDate,
        M.ProductID,
        ISNULL (
            (
                SELECT
                    SUM (Quantity)
                FROM Products P
                    INNER JOIN OrderDetails OD ON P.ProductID =
OD.ProductID AND P.ProductID = M.ProductID
                    INNER JOIN Orders O ON O.OrderID = OD.OrderID
                WHERE
                        O.OrderDate BETWEEN M2.startDate
                        AND M2.endDate
                GROUP BY P.Name
            ),
            0
        ) times sold
    FROM MenuDetails M
        INNER JOIN Menu M2 ON M.MenuID = M2.MenuID
GO
```

### 5.49. ClientExpensesReport

Raport o rocznych, miesięcznych, tygodniowych wydatkach danego klienta.

```
CREATE VIEW dbo.ClientExpensesReport
AS
    SELECT
        YEAR (O. OrderDate) AS [Year],
        isnull(convert(varchar(50), MONTH(O.OrderDate), 120),
'Podsumowanie miesiaca') AS [Month],
       isnull(convert(varchar(50), DATEPART(iso week, O.OrderDate),
120), 'Podsumowanie tygodnia') AS [Week],
        C.ClientID,
        SUM (O. OrderSum) AS [wydane środki]
    FROM Orders AS O
        INNER JOIN Clients C ON C.ClientID = O.ClientID
        INNER JOIN OrderDetails OD ON OD.OrderID = O.OrderID
        INNER JOIN Products P ON P.ProductID = OD.ProductID
        INNER JOIN MenuDetails M ON M.ProductID = P.ProductID
    GROUP BY GROUPING SETS (
            (C.ClientID, YEAR (O.OrderDate), MONTH (O.OrderDate),
DATEPART (iso week, O.OrderDate)),
```

#### 5.50. CurrentDiscountsVars

#### Aktualnie obowiązujące zniżki

```
CREATE VIEW dbo.CurrentDiscountsVars
AS
    SELECT
        VarID,
        DiscountType,
        ISNULL (CAST (Minimal Orders AS varchar), ' ') AS Minimal Orders,
        ISNULL(CAST(MinimalAggregateValue AS varchar), ' ') AS
MinimalAggregateValue,
        ISNULL(CAST(ValidityPeriod AS varchar), ' ') AS ValidityPeriod,
        DiscountValue,
        startDate,
        endDate
    FROM dbo.DiscountsVar
    WHERE
        (
             (
                 (getdate() >= startDate)
                AND (getdate() <= endDate)</pre>
            )
        )
GO
```

# 5.51. ClientsStatistics

#### Statystyki danych klientów

```
CREATE VIEW ClientStatistics
AS
SELECT C.ClientID,
            C2.CityName + ' ' + A.street + ' ' + A.LocalNr + ' ' +
A.PostalCode as Address,
            C.Phone,
            C.Email,
            COUNT(O.OrderID) as [times ordered],
            ISNULL((SELECT [value ordered]
                    FROM (SELECT ClientID, SUM(value) [value ordered]
                            FROM (SELECT O.ClientID as ClientID,
O.OrderSum as value
                                    FROM Orders O) OUT
                            GROUP BY ClientID) a
                    WHERE ClientID = C.ClientID), 0) [value ordered]
    FROM Clients C
        LEFT JOIN Orders O ON C.ClientID = O.ClientID
```

```
INNER JOIN Address A on A.AddressID = C.AddressID
INNER JOIN Cities C2 on C2.CityID = A.CityID
GROUP BY C.ClientID, C2.CityName + ' ' + A.street + ' ' + A.LocalNr +
' ' + A.PostalCode, C.Phone, C.Email
GO
```

### 5.52. ReservationSummaryMonthly

#### Miesięczny raport o rezerwacjach

```
CREATE VIEW dbo.ReservationSummaryMonthly
AS
    SELECT
        R.ReservationID,
        R.startDate,
        R.endDate,
        R.Status,
        O.ClientID,
        DATEPART (MONTH, cast (O. OrderDate AS DATE)) AS 'Miesiac',
        DATEPART (YEAR, cast (O.OrderDate AS DATE)) AS 'Rok',
        count(OD.ProductID) AS 'Liczba zamowionych produktow'
    FROM Reservation R
        INNER JOIN Orders O on R.ReservationID = O.ReservationID
        INNER JOIN OrderDetails OD on O.OrderID = OD.OrderID
    WHERE
        LOWER (STATUS) NOT LIKE 'denied' AND LOWER (STATUS) NOT LIKE
'cancelled' AND LOWER(O.OrderStatus) NOT LIKE 'denied' AND
LOWER (O. OrderStatus) NOT LIKE 'cancelled'
    GROUP BY
        R.ReservationID,
        R.startDate,
        R.endDate,
        R.Status,
        O.ClientID,
        DATEPART (MONTH, cast (O.OrderDate AS DATE)),
        DATEPART(YEAR, cast(O.OrderDate AS DATE))
GO
```

### 5.53. ReservationSummaryWeekly

# Tygodniowy raport o rezerwacjach

```
CREATE VIEW dbo.ReservationSummaryWeekly

AS

SELECT

R.ReservationID,
R.startDate,
R.endDate,
R.status,
O.ClientID,
DATEPART(iso_week, cast(O.OrderDate AS DATE)) AS 'Tydzien',
DATEPART(YEAR, cast(O.OrderDate AS DATE)) AS 'Rok',
count(OD.ProductID) AS 'Liczba zamowionych produktow'
```

```
FROM Reservation R
INNER JOIN Orders O on R.ReservationID = O.ReservationID
INNER JOIN OrderDetails OD on O.OrderID = OD.OrderID
WHERE
LOWER(STATUS) NOT LIKE 'denied' AND LOWER(STATUS) NOT LIKE
'cancelled' AND LOWER(O.OrderStatus) NOT LIKE 'denied' AND
LOWER(O.OrderStatus) NOT LIKE 'cancelled'
GROUP BY
R.ReservationID,
R.startDate,
R.endDate,
R.status,
O.ClientID,
DATEPART(iso_week, cast(O.OrderDate AS DATE)),
DATEPART(YEAR, cast(O.OrderDate AS DATE))
```

#### 5.54. ShowIndividualClients

Lista wszystkich klientów indywidualnych.

```
CREATE VIEW dbo.ShowIndividualClients
AS
    SELECT
        C.ClientID,
        P.FirstName,
        P.LastName,
        C. Phone,
        C.Email,
        C2.CityName + ' ' + A.street + ' ' + A.LocalNr + ' ' +
A.PostalCode as Address
    FROM Clients C
        INNER JOIN Address A on A.AddressID = C.AddressID
        INNER JOIN Cities C2 on C2.CityID = A.CityID
        INNER JOIN IndividualClient IC on IC.ClientID = C.ClientID
        INNER JOIN Person P on IC.PersonID = P.PersonID
GO
```

# 5.55. ShowCompanyClients

Lista wszystkich firm.

```
CREATE VIEW dbo.ShowCompanyClients

AS

SELECT

C.ClientID,

CompanyName,

NIP,

ISNULL(CAST(KRS AS VARCHAR), '') AS KRS,

ISNULL(CAST(Regon AS VARCHAR), '') AS Regon,

C.Phone,
```

```
C.Email,
C2.CityName + ' ' + A.street + ' ' + A.LocalNr + ' ' +

A.PostalCode as Address
FROM Clients C
INNER JOIN Address A on A.AddressID = C.AddressID
INNER JOIN Cities C2 on C2.CityID = A.CityID
INNER JOIN Companies CC on CC.ClientID = C.ClientID

GO
```

# 5.56. DiscountsSummaryPerClient

Informacje o zniżkach dla danych klientów.

```
CREATE VIEW DiscountsSummaryPerClient
AS
    SELECT
            IC.ClientID,
            CONCAT(P.LastName, ' ', P.FirstName) AS 'Person',
            DiscountID,
            AppliedDate,
            DiscountType,
            Discount Value,
            ISNULL(CAST(MinimalOrders AS varchar), '') AS 'Minimal Orders
needed',
            ISNULL(CAST(MinimalAggregateValue AS varchar), '') AS 'Minimal
Aggregate Value needed',
            ISNULL(CAST(ValidityPeriod AS varchar), '') AS 'Validity
Period',
            ISNULL(CAST(isUsed AS varchar), 'It is permanent') AS 'is
Used'
    FROM IndividualClient IC
        INNER JOIN Person P on P.PersonID = IC.PersonID
        INNER JOIN Discounts D on IC.ClientID = D.ClientID
        INNER JOIN DiscountsVar DV on D.VarID = DV.VarID
GO
```

# 6. Procedury

# 6.1. addCategory

```
CREATE PROCEDURE addCategory @CategoryName nvarchar(50), @Description
nvarchar(150) AS
   BEGIN
        SET NOCOUNT ON
            BEGIN TRY
                IF EXISTS (
                    SELECT * FROM Category WHERE @CategoryName =
CategoryName
                )
                    BEGIN
                        THROW 52000, N'Kategoria juz istnieje!', 1
                    END
                INSERT INTO Project.dbo.Category (CategoryName,
Description) VALUES (@CategoryName, @Description)
            END TRY
            BEGIN CATCH
                DECLARE @msg nvarchar(2048) = N'Blad dodania kategorii: '
+ ERROR MESSAGE();
                THROW 52000, @msg, 1
            END CATCH
    END
GO
```

# 6.2. ModifyTableSize

```
CREATE PROCEDURE ModifyTableSize @TableID int, @Size int
AS
    BEGIN
        SET NOCOUNT ON
            BEGIN TRY
                IF NOT EXISTS(SELECT * from Tables where TableID =
@TableID)
                    BEGIN;
                        THROW 52000, N'Nie ma takiego stolika.', 1
                    END
                IF @Size < 2
                    BEGIN;
                        THROW 52000, N'Stolik musi mieć przynajmniej 2
miejsca.', 1
                    END
                IF @Size IS NOT NULL
                    BEGIN
                        UPDATE Tables SET ChairAmount = @Size WHERE
TableID = @TableID
                    END
            END TRY
            BEGIN CATCH
                DECLARE
                         @msg nvarchar(2048) = N'Bład edytowania stolika:
```

```
' + ERROR_MESSAGE();
THROW 52000, @msg, 1
END CATCH
END
GO
```

# 6.3. ModifyTableStatus

```
CREATE PROCEDURE ModifyTableStatus @TableID int, @Status bit
AS
   BEGIN
        SET NOCOUNT ON
           BEGIN TRY
                IF NOT EXISTS(SELECT * from Tables where TableID =
@TableID)
                    BEGIN:
                        THROW 52000, N'Nie ma takiego stolika.', 1
                    END
                DECLARE @TableStatus bit
                SELECT @TableStatus = isActive from Tables where TableID =
@TableID
                IF @TableStatus = @Status
                    BEGIN;
                        THROW 52000, N'Stolik ma już taki status!.', 1
                    END
                IF @Status IS NOT NULL
                    BEGIN
                       UPDATE Tables SET isActive = @Status WHERE TableID
= @TableID
                    END
            END TRY
            BEGIN CATCH
                DECLARE @msg nvarchar(2048) = N'Bład edytowania stolika:
' + ERROR MESSAGE();
               THROW 52000, @msg, 1
            END CATCH
    END
GO
```

## 6.4. addTable

```
CREATE PROCEDURE addTable @Size int, @Status bit

AS

BEGIN

SET NOCOUNT ON

BEGIN TRY

IF @Size < 2

BEGIN;

THROW 52000, N'Stolik musi mieć przynajmniej 2

miejsca.', 1

END
```

```
DECLARE @TableID INT

SELECT @TableID = ISNULL(MAX(TableID), 0) + 1 FROM Tables

INSERT INTO Tables(TableID, ChairAmount, isActive)

VALUES (@TableID, @Size, @Status)

END TRY

BEGIN CATCH

DECLARE @msg nvarchar(2048) = N'Bład edytowania stolika: ' +

ERROR_MESSAGE();

THROW 52000, @msg, 1

END CATCH

END

GO
```

#### 6.5. removeTable

```
CREATE PROCEDURE removeTable @TableID int
AS
    BEGIN
        SET NOCOUNT ON
            BEGIN TRY
                IF NOT EXISTS(SELECT * from Tables where TableID =
@TableID)
                    BEGIN;
                        THROW 52000, N'Nie ma takiego stolika.', 1
                    END
                DELETE FROM Tables WHERE TableID = @TableID
            END TRY
            BEGIN CATCH
                DECLARE @msg nvarchar(2048) = N'Bład edytowania stolika:
' + ERROR MESSAGE();
                THROW 52000, @msg, 1
            END CATCH
    END
GO
```

#### 6.6. addCity

```
CREATE PROCEDURE addCity @CityName varchar(35)

AS

BEGIN

SET NOCOUNT ON

BEGIN TRY

IF EXISTS(SELECT * FROM Cities WHERE CityName = @CityName)

BEGIN

THROW 52000, 'Takie miasto już istnieje!', 1

END

INSERT INTO Cities(CityName) VALUES (@CityName)

END TRY

BEGIN CATCH

DECLARE @msg nvarchar(2048) = N'Błąd dodania miasta: ' +

ERROR_MESSAGE();

THROW 52000, @msg, 1

END CATCH
```

```
END
GO
```

## 6.7. addAddress

```
CREATE PROCEDURE addAddress
                @Street nvarchar(70),
                @LocalNr varchar(10),
                @PostalCode char(6),
                @CityName nvarchar(35)
AS
    BEGIN
       SET NOCOUNT ON
       BEGIN TRY
            DECLARE @CityID int
            IF NOT EXISTS (SELECT * FROM Cities WHERE CityName LIKE
@CityName)
                 BEGIN
                     EXEC addCity @CityName
            SELECT @CityID = CityID FROM Cities WHERE CityName LIKE
@CityName
            IF EXISTS(SELECT * FROM Address WHERE CityID = @CityID AND
PostalCode LIKE @PostalCode AND street LIKE @Street AND LocalNr LIKE
@LocalNr)
                BEGIN
                    THROW 52000, 'Istnieje już dokładnie taki sam adres w
bazie!', 1
                END
            INSERT INTO Address(CityID, street, LocalNr, PostalCode)
            VALUES (@CityID, @Street, @LocalNr, @PostalCode)
       END TRY
       BEGIN CATCH
           DECLARE @msg nvarchar(2048) = N'Blad dodania adresu: ' +
ERROR MESSAGE();
          THROW 52000, @msg, 1
       END CATCH
    END
go
```

#### 6.8 removeAdrress

```
CREATE PROCEDURE removeAddress @AddressID int

AS

BEGIN

SET NOCOUNT ON

BEGIN TRY

IF NOT EXISTS(SELECT * from Address where AddressID =

@AddressID)

BEGIN;

THROW 52000, N'Nie ma takiego adresu.', 1

END

DELETE FROM Address WHERE AddressID = @AddressID

END TRY
```

```
BEGIN CATCH

DECLARE @msg nvarchar(2048) = N'Bład usuniecia adresu: ' +

ERROR_MESSAGE();

THROW 52000, @msg, 1

END CATCH

END

GO
```

## 6.9. addPerson

```
CREATE PROCEDURE addPerson @FirstName varchar(70), @LastName varchar(50)

as

BEGIN

SET NOCOUNT ON

BEGIN TRY

INSERT INTO Person(LastName, FirstName)

vALUES(@LastName, @FirstName)

end try

begin catch

DECLARE @msg nvarchar(2048) = N'Bład dodania Osoby: ' +

ERROR_MESSAGE();

THROW 52000, @msg, 1

end catch

end

GO
```

## 6.10. removePerson

```
CREATE PROCEDURE removePerson @PersonID int
AS
    BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF NOT EXISTS(SELECT * from Person where PersonID = @PersonID)
                    THROW 52000, N'Nie ma takiej osoby.', 1
                END
            DELETE FROM Person WHERE PersonID = @PersonID
        END TRY
        BEGIN CATCH
            DECLARE @msg nvarchar(2048) = N'Bład usuniecia osoby: ' +
ERROR MESSAGE();
           THROW 52000, @msg, 1
        END CATCH
   END
GO
```

## 6.11. addClient

@ClientType przyjmuje wartość 'l' dla klienta indywidualnego lub 'C' dla klienta firmowego

```
CREATE PROCEDURE addClient @ClientType varchar(1),
```

```
@CityName nvarchar(35) = NULL,
                            @Street nvarchar(70) = NULL,
                            @LocalNr varchar(10) = NULL,
                            @PostalCode char(6) = NULL,
                            @AddressID int = NULL,
                            @Phone varchar(14),
                            @Email varchar(100),
                            @FirstName varchar(50) = NULL,
                            @LastName\ varchar(70) = NULL,
                            @CompanyName nvarchar(50) = NULL,
                            @NIP char(10) = NULL,
                            @KRS char(10) = NULL,
                            @REGON char(9) = NULL
AS
    BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF (@ClientType NOT LIKE 'C' AND @ClientType NOT LIKE 'I')
            BEGIN:
                THROW 52000, N'Nie ma takiego typu klienta!', 1
            END
            IF EXISTS (SELECT * FROM Clients WHERE Phone LIKE @Phone)
                THROW 52000, N'Numer telefonu jest już w bazie', 1
            END
            IF EXISTS (SELECT * FROM Clients WHERE Email LIKE @Email)
                THROW 52000, N'Email jest już w bazie', 1
            END
            IF @CompanyName IS NOT NULL AND @ClientType LIKE 'C' AND
EXISTS ( SELECT * FROM Companies WHERE CompanyName LIKE @CompanyName)
            BEGIN;
                THROW 52000, N'Firma jest już w bazie', 1
            END
            IF @KRS IS NOT NULL AND @ClientType LIKE 'C' AND EXISTS(
SELECT * FROM Companies WHERE KRS LIKE @KRS)
            BEGIN:
                THROW 52000, N'KRS jest już w bazie', 1
            END
            IF @NIP IS NOT NULL AND @ClientType LIKE 'C' AND EXISTS(
SELECT * FROM Companies WHERE NIP LIKE @NIP)
            BEGIN;
                THROW 52000, N'NIP jest już w bazie', 1
            END
            IF @REGON IS NOT NULL AND @ClientType LIKE 'C' AND EXISTS(
SELECT * FROM Companies WHERE Regon LIKE @REGON)
            BEGIN;
                THROW 52000, N'REGON jest już w bazie', 1
            END
            IF (@ClientType = 'C')
```

```
BEGIN
                IF (@NIP IS NULL)
                BEGIN
                    THROW 52000, N'Nip musi być określony dla klienta
firmowego!', 1
                END
                IF(@CompanyName IS NULL)
                BEGIN
                    THROW 52000, N'CompanyName musi być określony dla
klienta firmowego!', 1
                END
            END
            IF (@ClientType = 'I')
            BEGIN
               IF(@LastName IS NULL)
                    THROW 52000, N'Nazwisko musi być określony dla klienta
indywidualnego!', 1
                IF(@FirstName IS NULL)
                BEGIN
                    THROW 52000, N'Imie musi być określony dla klienta
indywidualnego!',1
                END
            END
            IF @Street IS NOT NULL AND @PostalCode IS NULL AND @LocalNr IS
NULL AND @CityName IS NULL
            BEGIN
                THROW 52000, N'Nie można podać tylko @Street! Musisz podać
jeszcze @CityName, @LocalNr, @PostalCode!', 1
            END
            IF @Street IS NULL AND @PostalCode IS NOT NULL AND @LocalNr IS
NULL AND @CityName IS NULL
            BEGIN
                THROW 52000, N'Nie można podać tylko @PostalCode! Musisz
podać jeszcze @Street, @LocalNr, @CityName!', 1
            IF @Street IS NULL AND @PostalCode IS NULL AND @LocalNr IS NOT
NULL AND @CityName IS NULL
            BEGIN
                THROW 52000, N'Nie można podać tylko @LocalNr. Musisz
podać jeszcze @Street, @CityName, @PostalCode!', 1
            IF @Street IS NULL AND @PostalCode IS NULL AND @LocalNr IS
NULL AND @CityName IS NOT NULL
                THROW 52000, N'Nie można podać tylko @CityName. Musisz
podać jeszcze @Street, @LocalNr, @PostalCode!', 1
```

```
IF @Street IS NOT NULL AND @PostalCode IS NOT NULL AND
@LocalNr IS NOT NULL AND @CityName IS NULL
            BEGIN
               THROW 52000, N'Nie można podać tylko @Street, @PostalCode,
@LocalNr. Musisz podać jeszcze @CityName!', 1
            END
            IF @Street IS NOT NULL AND @PostalCode IS NOT NULL AND
@LocalNr IS NULL AND @CityName IS NOT NULL
            BEGIN
                THROW 52000, N'Nie można podać tylko @Street, @PostalCode,
@CityName. Musisz podać jeszcze @LocalNr!', 1
            END
            IF @Street IS NOT NULL AND @PostalCode IS NULL AND @LocalNr IS
NOT NULL AND @CityName IS NOT NULL
            BEGIN
                THROW 52000, N'Nie można podać tylko @Street, @LocalNr,
@CityName. Musisz podać jeszcze @PostalCode!', 1
            IF @Street IS NULL AND @PostalCode IS NOT NULL AND @LocalNr IS
NOT NULL AND @CityName IS NOT NULL
            BEGIN
                THROW 52000, N'Nie można podać tylko @PostalCode,
@LocalNr, @CityName. Musisz podać jeszcze @Street!', 1
            IF @Street IS NULL AND @PostalCode IS NULL AND @LocalNr IS NOT
NULL AND @CityName IS NOT NULL
            BEGIN
                THROW 52000, N'Nie można podać tylko @LocalNr, @CityName.
Musisz podać jeszcze @Street, @PostalCode!', 1
            IF @Street IS NULL AND @PostalCode IS NOT NULL AND @LocalNr IS
NULL AND @CityName IS NOT NULL
            BEGIN
               THROW 52000, N'Nie można podać tylko @PostalCode,
@CityName. Musisz podać jeszcze @Street, @LocalNr!', 1
            END
            IF @Street IS NULL AND @PostalCode IS NOT NULL AND @LocalNr IS
NOT NULL AND @CityName IS NULL
           BEGIN
               THROW 52000, N'Nie można podać tylko @PostalCode,
@LocalNr. Musisz podać jeszcze @Street, @CityName!', 1
            END
            IF @Street IS NOT NULL AND @PostalCode IS NULL AND @LocalNr IS
NULL AND @CityName IS NOT NULL
            BEGIN
                THROW 52000, N'Nie można podać tylko @Street, @CityName.
Musisz podać jeszcze @PostalCode, @LocalNr!', 1
           END
            IF @Street IS NOT NULL AND @PostalCode IS NULL AND @LocalNr IS
```

```
NOT NULL AND @CityName IS NULL
            BEGIN
               THROW 52000, N'Nie można podać tylko @Street, @LocalNr.
Musisz podać jeszcze @PostalCode, @CityName!', 1
            IF @Street IS NOT NULL AND @PostalCode IS NOT NULL AND
@LocalNr IS NULL AND @CityName IS NULL
            BEGIN
                THROW 52000, N'Nie można podać tylko @Street, @PostalCode.
Musisz podać jeszcze @LocalNr, @CityName!', 1
            DECLARE @AddressID int;
            IF @Street IS NOT NULL AND @PostalCode IS NOT NULL AND
@LocalNr IS NOT NULL AND @CityName IS NOT NULL
                BEGIN
                    IF NOT EXISTS ( SELECT * FROM Address WHERE street LIKE
@Street AND PostalCode LIKE @PostalCode AND LocalNr LIKE @LocalNr)
                            EXEC addAddress
@Street, @LocalNr, @PostalCode, @CityName
                    SELECT @AddressID = AddressID FROM Address
                END
            ELSE
                BEGIN
                    IF @AddressID IS NOT NULL
                        BEGIN
                           SET @AddressID = @AddressID
                    ELSE
                        BEGIN
                            THROW 52000, 'Nie można, żeby wszystkie
parametry nie zostały podane tj. @AddressID, @Street, @PostalCode,
@LocalNr, @CityName. Musisz podać @AddressID lub @Street, @PostalCode,
@LocalNr, @CityName!', 1
                        END
                END
            INSERT INTO Clients(AddressID, Phone, Email)
            VALUES(@AddressID , @Phone, @Email)
            DECLARE @ClientID int;
            SELECT @ClientID = ClientID FROM Clients
            WHERE @AddressID = AddressID
                AND Clients. Phone LIKE @Phone
                AND Clients. Email LIKE @Email
            IF (@ClientType = 'C')
                INSERT INTO Companies (ClientID, CompanyName, NIP, KRS,
Regon)
                VALUES (@ClientID, @CompanyName, @NIP, @KRS, @REGON)
            END
```

```
IF (@ClientType = 'I')
            BEGIN
                EXEC addPerson @FirstName, @LastName
                DECLARE @PersonID int
                SELECT @PersonID = PersonID FROM Person
                INSERT INTO IndividualClient(ClientID, PersonID)
                VALUES(@ClientID, @PersonID)
            END
        END TRY
        BEGIN CATCH
            DECLARE @msg nvarchar(2048) = N'Bład dodania klienta: ' +
ERROR MESSAGE();
            THROW 52000, @msg, 1
        END CATCH
    END
GO
```

## 6.12. addProductToMenu

```
CREATE PROCEDURE addProductToMenu
                                    @Name nvarchar(150),
                                    @MenuID int,
                                    @Price money
AS
    BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF NOT EXISTS (
                SELECT * FROM Products WHERE Name like @Name
            BEGIN;
                THROW 52000, N'Nie ma takiego produktu', 1
            IF EXISTS (SELECT * FROM Products WHERE Name LIKE @Name AND
IsAvailable = 0)
                BEGIN
                    THROW 52000, N'Ten produkt jest aktualnie
niedostępny!', 1
                END
            IF NOT EXISTS (
                SELECT * FROM Menu WHERE MenuID = @MenuID
                )
            BEGIN;
               THROW 52000, N'Nie ma takiego menu. Dodaj napierw menu aby
dodać produkt!', 1
            END
            DECLARE @ProductID int
            SELECT @ProductID = ProductID from Products WHERE Name like
@Name
```

#### 6.13. removeProductFromMenu

```
CREATE PROCEDURE removeProductFromMenu @Name nvarchar(150),
                                         @MenuID int
AS
    BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF NOT EXISTS (
                SELECT * FROM Products WHERE Name like @Name
            BEGIN;
                THROW 52000, N'Nie ma takiej potrawy', 1
            END
            IF NOT EXISTS (
                SELECT * FROM Menu WHERE MenuID = @MenuID
            BEGIN;
                THROW 52000, N'Nie ma takiego menu', 1
            END
            IF NOT EXISTS (
                SELECT * FROM MenuDetails MD
                    INNER JOIN Products P ON P.ProductID = MD.ProductID
                WHERE MenuID = @MenuID AND Name like @Name
                )
            BEGIN;
                THROW 52000, N'Nie ma takiego produktu w menu', 1
            END
            DECLARE @ProductID int
            SELECT @ProductID = ProductID from Products WHERE Name like
@Name
```

```
DELETE FROM MenuDetails WHERE MenuID = @MenuID and ProductID

= @ProductID

END TRY

BEGIN CATCH

DECLARE @msg nvarchar(2048) = N'Błąd usunięcia potrawy z menu:

' + ERROR_MESSAGE();

THROW 52000, @msg, 1

END CATCH

END

GO
```

#### 6.14. addMenu

```
CREATE PROCEDURE addMenu @StartDate datetime,
                          @EndDate datetime = NULL,
                          @Description varchar(max) = NULL
AS
    BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF EXISTS(SELECT * FROM Menu WHERE CAST(startDate AS date) =
CAST(@StartDate AS date))
               BEGIN
                    THROW 52000, N'Menu zaczynające się w ten dzień już
istnieje!', 1
                END
            IF EXISTS(SELECT * FROM Menu WHERE CAST(endDate AS date) =
CAST(@EndDate AS date))
                BEGIN
                    THROW 52000, N'Menu kończące się w ten dzień już
istnieje!', 1
                END
            IF EXISTS(SELECT * FROM Menu WHERE CAST(startDate AS date) =
CAST(@StartDate AS date) AND CAST(endDate AS date) = CAST(@EndDate AS
date))
                BEGIN
                    THROW 52000, N'Menu już istnieje!', 1
                END
            DECLARE @MenuID int
            SELECT @MenuID = ISNULL(MAX(MenuID), 0) + 1 FROM Menu
            IF @Description IS NOT NULL
                INSERT INTO Menu(MenuID, startDate, endDate, Description)
                VALUES (@MenuID, @StartDate, @EndDate, @Description)
                INSERT INTO Menu(MenuID, startDate, endDate)
                VALUES(@MenuID, @StartDate, @EndDate)
        END TRY
        BEGIN CATCH
            DECLARE @msg nvarchar(2048) = N'Błąd dodania menu: ' +
ERROR MESSAGE();
            THROW 52000, @msg, 1
        END CATCH
```

```
END
GO
```

# 6.15. updateMenuDescription

```
CREATE PROCEDURE UpdateMenuDescription(@MenuID int, @Description varchar)
    BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF NOT EXISTS (
                    SELECT * FROM Menu WHERE MenuID = @MenuID
                BEGIN;
                    THROW 52000, 'Nie ma takiego menu!',1
            UPDATE Menu SET Description = @Description WHERE MenuID =
@MenuID
        END TRY
        BEGIN CATCH
            DECLARE @msg nvarchar(2048) = N'Błąd dodania/zmienienia opisu
menu: ' + ERROR MESSAGE();
            THROW 52000, @msg, 1
        END CATCH
    END
GO
```

#### 6.16. create invoice

```
CREATE PROCEDURE [create invoice] @OrderID int,
  @InvoiceDate datetime,
  @PaymentMethodName varchar(50),
  @PaymentStatusName varchar(50),
  @InvoiceID int output
AS
    BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF NOT EXISTS (
                SELECT OrderID FROM Orders
                WHERE OrderID = @OrderID
            BEGIN;
                THROW 52000, N'Nie ma takiego zamówienia', 1
            END
            IF NOT EXISTS (
                    SELECT PaymentName FROM PaymentMethods
                    WHERE PaymentName LIKE @PaymentMethodName
            )
            BEGIN;
                THROW 52000, N'Nie ma takiej metody płatności', 1
```

```
END
            IF NOT EXISTS (
                    SELECT PaymentStatusName FROM PaymentStatus
                    WHERE PaymentStatusName LIKE @PaymentStatusName
            BEGIN;
                THROW 52000, N'Nie ma takiego statusu płatności', 1
            END
            DECLARE @invoiceNum nvarchar(50) = concat('FV/', cast(@OrderID
AS nvarchar(50)), '/', cast(year((SELECT OrderCompletionDate FROM Orders
WHERE OrderID = @OrderID() AS nvarchar(4)())
            DECLARE @ClientID int = (SELECT ClientID FROM Orders
                                        WHERE OrderID = @OrderID)
            DECLARE @InvoiceIDs TABLE (ID int)
            DECLARE @PaymentMethodID int
            DECLARE @PaymentStatusID int
            SELECT @PaymentMethodID = PaymentMethodID FROM PaymentMethods
WHERE PaymentName LIKE @PaymentMethodName
           SELECT @PaymentStatusID = PaymentStatusID FROM PaymentStatus
WHERE PaymentStatusName LIKE @PaymentStatusName
            INSERT INTO
              Invoice (InvoiceNumber, InvoiceDate, DueDate, ClientID,
PaymentStatusID, PaymentMethodID) OUTPUT inserted. InvoiceID INTO
@InvoiceIDs
               VALUES (@invoiceNum, @InvoiceDate, dateadd(DAY, 12,
GETDATE()), @ClientID, @PaymentStatusID, @PaymentMethodID)
            SELECT @InvoiceID = ID FROM @InvoiceIDs RETURN @InvoiceID
        END TRY
        BEGIN CATCH
            DECLARE @msg nvarchar(2048) = N'Błąd dodania faktury: ' +
ERROR MESSAGE();
           THROW 52000, @msg, 1
        END CATCH
   END
```

# 6.17. add Payment Status

```
CREATE PROCEDURE [add Payment Status] @PaymentStatusName varchar(50)

AS

BEGIN

SET NOCOUNT ON

BEGIN TRY

INSERT INTO PaymentStatus(PaymentStatusName) values

(@PaymentStatusName)

END TRY

BEGIN CATCH

DECLARE @msg nvarchar(2048) = N'Błąd dodania metody płatności

do zamówienia: ' + ERROR MESSAGE();
```

```
THROW 52000, @msg, 1
END CATCH
END
GO
```

# 6.18. add Payment Method

```
CREATE PROCEDURE [add Payment Method] @PaymentMethodName varchar(50)

AS

BEGIN

SET NOCOUNT ON

BEGIN TRY

INSERT INTO PaymentMethods(PaymentName) values

(@PaymentMethodName)

END TRY

BEGIN CATCH

DECLARE @msg nvarchar(2048) = N'Błąd dodania metody płatności

do zamówienia: ' + ERROR_MESSAGE();

THROW 52000, @msg, 1

END CATCH

END

GO
```

# 6.19. change payment method for order

```
CREATE PROCEDURE [change payment method for order] @PaymentMethodName
varchar(50), @OrderID int
AS
   BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF NOT EXISTS(SELECT OrderID FROM Orders WHERE OrderID =
@OrderID)
                BEGIN:
                    THROW 52000, 'Brak takiego zamowienia', 1
            IF NOT EXISTS (SELECT PaymentMethodID FROM PaymentMethods WHERE
PaymentName LIKE @PaymentMethodName)
                BEGIN;
                    THROW 52000, 'Brak takiej metody platnosci', 1
                END
            DECLARE @PaymentMethodID int;
            SELECT @PaymentMethodID = PaymentMethodID FROM PaymentMethods
WHERE PaymentName LIKE @PaymentMethodName
            UPDATE Orders SET PaymentMethodID = @PaymentMethodID WHERE
OrderID = @OrderID
        END TRY
        BEGIN CATCH
               DECLARE @msg nvarchar(2048) = N'Błąd zmiany metody: ' +
ERROR MESSAGE();
               THROW 52000, @msg, 1
```

```
END CATCH
END
GO
```

# 6.20. change payment method for invoice

```
CREATE PROCEDURE [change payment method for invoice] @PaymentMethodName
varchar(50), @InvoiceID int
AS
    BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF not EXISTS (SELECT InvoiceID FROM Invoice WHERE InvoiceID =
@InvoiceID)
                BEGIN;
                    THROW 52000, 'Brak takiego zamowienia', 1
            IF not EXISTS(SELECT PaymentMethodID FROM PaymentMethods WHERE
PaymentName LIKE @PaymentMethodName)
                BEGIN;
                    THROW 52000, 'Brak takiej metody platnosci', 1
                END
            DECLARE @PaymentMethodID int;
            SELECT @PaymentMethodID = PaymentMethodID FROM PaymentMethods
WHERE PaymentName LIKE @PaymentMethodName
            UPDATE Invoice SET PaymentMethodID = @PaymentMethodID WHERE
InvoiceID = @InvoiceID
        END TRY
        BEGIN CATCH
                DECLARE @msg nvarchar(2048) = N'Błąd zmiany metody: ' +
ERROR MESSAGE();
                THROW 52000, @msg, 1
        END CATCH
    END
GO
```

# 6.21. change payment status for invoice

```
CREATE PROCEDURE [change payment status for invoice] @PaymentStatusName
varchar(50), @InvoiceID int
AS

BEGIN
    SET NOCOUNT ON
    BEGIN TRY
        IF NOT EXISTS(SELECT InvoiceID FROM Invoice WHERE InvoiceID =
@InvoiceID)

BEGIN;
        THROW 52000, 'Brak takiego zamowienia', 1
        END
        IF NOT EXISTS(select PaymentStatusID FROM PaymentStatus WHERE
PaymentStatus.PaymentStatusName LIKE @PaymentStatusName)
```

```
BEGIN:
                    THROW 52000, 'Brak takiego statusu platnosci', 1
                END
            DECLARE @PaymentStatusID int;
            SELECT @PaymentStatusID = PaymentStatusID FROM PaymentStatus
WHERE PaymentStatus.PaymentStatusName LIKE @PaymentStatusName
            UPDATE Invoice SET PaymentStatusID = @PaymentStatusID WHERE
InvoiceID = @InvoiceID
        END TRY
        BEGIN CATCH
                DECLARE @msg nvarchar(2048) = N'Błąd zmiany statusu: ' +
ERROR MESSAGE();
                THROW 52000, @msq, 1
        END CATCH
   END
GO
```

## 6.22. change payment status for order

```
CREATE PROCEDURE [change payment status for order] @PaymentStatusName
varchar(50), @OrderID int
AS
   BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF NOT EXISTS (SELECT OrderID FROM Orders WHERE OrderID =
@OrderID)
                BEGIN;
                    THROW 52000, 'Brak takiego zamowienia', 1
            IF NOT EXISTS (SELECT PaymentStatusID FROM PaymentStatus WHERE
PaymentStatus.PaymentStatusName LIKE @PaymentStatusName)
                BEGIN;
                    THROW 52000, 'Brak takiego statusu platnosci', 1
            DECLARE @PaymentStatusID int;
            SELECT @PaymentStatusID = PaymentStatusID FROM PaymentStatus
WHERE PaymentStatus.PaymentStatusName LIKE @PaymentStatusName
            UPDATE Orders SET PaymentStatusID = @PaymentStatusID WHERE
OrderID = @OrderID
        END TRY
        BEGIN CATCH
                DECLARE @msg nvarchar(2048) = N'Błąd zmiany statusu: ' +
ERROR MESSAGE();
               THROW 52000, @msg, 1
        END CATCH
   END
```

## 6.23. AddOrderInstantPay

#### @OrderStatus przyjmowane są te które zostały zdefiniowane w tabeli Orders

```
CREATE PROCEDURE AddOrderInstantPay @ClientID int,
                                    @OrderCompletionDate datetime = null,
                                    @PaymentStatusName_ varchar(50),
                                    @PaymentMethodName_ varchar(50),
                                    @OrderStatus varchar(15),
                                    @StaffID int
AS
BEGIN
    SET NOCOUNT ON
    BEGIN TRY
        IF @OrderCompletionDate IS NOT NULL AND @OrderCompletionDate <=</pre>
            BEGIN
               THROW 52000, N'Data ukończenia zamówienia musi być wieksza
od aktualnej!', 1
            END
        IF NOT EXISTS (SELECT PaymentStatusID FROM PaymentStatus WHERE
PaymentStatusName LIKE @PaymentStatusName )
            BEGIN;
                THROW 52000, 'Nie ma takiego statusu!', 1
        IF NOT EXISTS (select PaymentMethods.PaymentName FROM
PaymentMethods WHERE PaymentMethods.PaymentName LIKE @PaymentMethodName )
            BEGIN:
                THROW 52000, 'Nie ma takiej metody!', 1
        IF NOT EXISTS (SELECT StaffID FROM Staff WHERE StaffID = @StaffID)
            BEGIN;
                THROW 52000, 'Nie ma takiego pracownika!', 1
            END
        DECLARE @OrderIDTable TABLE
                (
                    Id int
        DECLARE @OrderID int
        DECLARE @PaymentMethodID int
        DECLARE @PaymentStatusID int
        DECLARE @InvoiceID int
        SELECT @PaymentStatusID = PaymentStatusID FROM PaymentStatus
WHERE PaymentStatusName LIKE @PaymentStatusName
        SELECT @PaymentMethodID = PaymentMethods.PaymentMethodID FROM
PaymentMethods WHERE PaymentMethods.PaymentName LIKE @PaymentMethodName
        INSERT INTO Orders (ClientID, PaymentStatusID, PaymentMethodID,
staffID, OrderSum, OrderCompletionDate, OrderStatus, OrderDate)
        OUTPUT inserted.OrderID INTO @OrderIDTable
        VALUES (@ClientID, @PaymentStatusID, @PaymentMethodID, @StaffID,
0.0, @OrderCompletionDate, @OrderStatus, GETDATE());
```

## 6.24. addOrderMonthPay

#### @OrderStatus przyjmowane są te które zostały zdefiniowane w tabeli Orders

```
CREATE PROCEDURE AddOrderMonthPay
                                    @ClientID int,
                                     @OrderCompletionDate datetime,
                                    @PaymentStatusName varchar(50),
                                    @PaymentMethodName varchar(50),
                                    @OrderStatus varchar(15),
                                    @StaffID int
AS
BEGIN
   SET NOCOUNT ON
    BEGIN TRY
       IF @OrderCompletionDate IS NOT NULL AND @OrderCompletionDate <=</pre>
GETDATE()
                THROW 52000, N'Data ukończenia zamówienia musi być większa
od aktualnej!', 1
        IF NOT EXISTS (SELECT PaymentStatusID FROM PaymentStatus WHERE
PaymentStatusName LIKE @PaymentStatusName )
            BEGIN;
                THROW 52000, 'Nie ma takiego statusu!', 1
        IF not EXISTS (SELECT PaymentMethods.PaymentName FROM
PaymentMethods WHERE PaymentMethods.PaymentName LIKE @PaymentMethodName )
                THROW 52000, 'Nie ma takiej metody!', 1
        IF NOT EXISTS (SELECT StaffID FROM Staff WHERE StaffID = @StaffID)
                THROW 52000, 'Nie ma takiego pracownika!', 1
            END
        Declare @OrderIDTable table
                    Id int
```

```
Declare @OrderID int
        DECLARE @PaymentMethodID int
        DECLARE @PaymentStatusID int
        DECLARE @startOfMonth datetime = cast(DATEADD(month,
DATEDIFF (month, 0, @OrderCompletionDate) + 1, 0) AS date)
        DECLARE @InvoiceID int
        SELECT @PaymentStatusID = PaymentStatusID FROM PaymentStatus
WHERE PaymentStatusName LIKE @PaymentStatusName
        SELECT @PaymentMethodID = PaymentMethods.PaymentMethodID FROM
PaymentMethods WHERE PaymentMethods.PaymentName LIKE @PaymentMethodName
       INSERT INTO Orders (ClientID, PaymentStatusID, PaymentMethodID,
staffID, OrderSum, OrderCompletionDate, OrderStatus, OrderDate)
       OUTPUT inserted.OrderID INTO @OrderIDTable
        VALUES (@ClientID, @PaymentStatusID, @PaymentMethodID, @StaffID,
0.0, @OrderCompletionDate, @OrderStatus, GETDATE());
        SELECT @OrderID = Id FROM @OrderIDTable
        SELECT @InvoiceID = InvoiceID FROM Invoice
        WHERE ClientID = @ClientID
            AND month(InvoiceDate) = month(@startOfMonth)
            AND year(InvoiceDate) = year(@startOfMonth)
        IF @InvoiceID IS NULL
            BEGIN;
               EXEC dbo.[create invoice] @OrderID = @OrderID,
@InvoiceDate = @startOfMonth, @PaymentMethodName = @PaymentMethodName ,
@PaymentStatusName = @PaymentStatusName , @InvoiceID = @InvoiceID OUTPUT
        UPDATE [Orders] SET InvoiceID= @InvoiceID WHERE OrderID = @OrderID
       RETURN @OrderID
    END TRY
    BEGIN CATCH
       DECLARE @msg nvarchar(2048) = N'Błąd dodania zamowienia: ' +
ERROR MESSAGE();
       THROW 52000, @msg, 1
   END CATCH
END:
```

## 6.25. addStaffMember

```
CREATE PROCEDURE addStaffMember @LastName nvarchar(50), @FirstName nvarchar(70), @Position varchar(50), @Email varchar(100), @Phone varchar(14), @AddressID int

AS

BEGIN

SET NOCOUNT ON

BEGIN TRY

IF EXISTS(SELECT * FROM Staff WHERE Email LIKE @Email)

BEGIN;
```

```
THROW 52000, 'Pracownik o takim emailu już istnieje!', 1
            END
            IF NOT EXISTS(SELECT * FROM Address WHERE AddressID =
@AddressID)
            BEGIN;
                THROW 52000, 'Nie ma takiego adresu!', 1
            END
            IF EXISTS (SELECT * FROM Staff WHERE LastName = @LastName AND
FirstName = @FirstName AND Position = @Position AND Email = @Email AND
Phone = @Phone AND AddressID = @AddressID)
            BEGIN;
                THROW 52000, 'Taki pracownik już istnieje!', 1
            END
            INSERT INTO Staff (LastName, FirstName, Position, Email,
Phone, AddressID)
            VALUES (@LastName, @FirstName, @Position, @Email, @Phone,
@AddressID);
        END TRY
        BEGIN CATCH
            DECLARE @msg varchar(2048) = N'Błąd dodania nowego pracownika:
' + ERROR MESSAGE();
            THROW 52000, @msg, 1
        END CATCH
   END
GO
```

#### 6.26. addProduct

```
CREATE PROCEDURE addProduct @CategoryID int, @Name nvarchar(50),
@Description nvarchar(150) = NULL, @IsAvailable bit = NULL
AS
    BEGIN
       SET NOCOUNT ON
       BEGIN TRY
           IF EXISTS (SELECT * FROM Products WHERE Name LIKE @Name)
           BEGIN;
                THROW 52000, N'Taki produkt już istnieje!', 1
            END
            IF @Description IS NULL AND @IsAvailable IS NOT NULL
                INSERT INTO Products(CategoryID, Name, IsAvailable)
                VALUES (@CategoryID, @Name, @IsAvailable)
            ELSE IF @Description IS NOT NULL AND @IsAvailable IS NULL
                INSERT INTO Products(CategoryID, Name, Description)
                VALUES (@CategoryID, @Name, @Description)
            END
            ELSE
            BEGIN
                INSERT INTO Products (CategoryID, Name, Description,
IsAvailable)
```

```
VALUES (@CategoryID, @Name, @Description, @IsAvailable)

END

END TRY

BEGIN CATCH

DECLARE @msg varchar(2048) = N'Błąd dodania nowego produktu: '

+ ERROR_MESSAGE()

THROW 52000, @msg, 1

END CATCH

END

GO
```

## 6.27. removeCity

```
CREATE PROCEDURE removeCity @CityID int
AS
   BEGIN
       SET NOCOUNT ON
       BEGIN TRY
            IF NOT EXISTS(SELECT * FROM Cities WHERE CityID = @CityID)
                THROW 52000, 'Nie ma takiego miasta!', 1
            DELETE FROM Cities WHERE CityID = @CityID
        END TRY
        BEGIN CATCH
            DECLARE @msg nvarchar(2048) = N'Błąd usunięcia miasta: ' +
ERROR MESSAGE();
            THROW 52000, @msg, 1
        END CATCH
   END
GO
```

## 6.28. removeCategory

```
CREATE PROCEDURE removeCategory @CategoryID int
   BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF NOT EXISTS(SELECT * FROM Category WHERE CategoryID =
@CategoryID)
            BEGIN
                THROW 52000, 'Nie ma takiej kategorii!', 1
            DELETE FROM Category WHERE CategoryID = @CategoryID
        END TRY
        BEGIN CATCH
            DECLARE @msg nvarchar(2048) = N'Błąd usuniecia kategorii: ' +
ERROR MESSAGE();
           THROW 52000, @msq, 1
        END CATCH
    END
GO
```

#### 6.29. removeProduct

```
CREATE PROCEDURE removeProduct @ProductID int
AS
   BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF NOT EXISTS(SELECT * FROM Products WHERE ProductID =
@ProductID)
            BEGIN;
                THROW 52000, 'Nie ma takiego produktu!', 1
            DELETE FROM Products WHERE ProductID = @ProductID
        BEGIN CATCH
            DECLARE @msg nvarchar(2048) = N'Blad usuniecia produktu: ' +
ERROR MESSAGE();
            THROW 52000, @msg, 1
        END CATCH
   END
GO
```

# 6.30. changeOrderStatus

```
CREATE PROCEDURE changeOrderStatus @OrderID int, @OrderStatus varchar(15)
AS
   BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF NOT EXISTS (SELECT * FROM Orders WHERE OrderID = @OrderID)
            BEGIN;
                THROW 52000, N'Nie ma takiego zamówienia!', 1
            END
            IF LOWER(@OrderStatus) NOT IN('pending', 'accepted',
'completed', 'denied', 'picked', 'cancelled')
                BEGIN
                    THROW 52000, N'Nie ma takiego statusu zamówienia! ', 1
            IF LOWER(@OrderStatus) LIKE 'picked' AND NOT EXISTS(SELECT *
FROM Orders INNER JOIN OrdersTakeaways OT ON Orders.TakeawayID =
OT.TakeawaysID WHERE OrderID = @OrderID)
                BEGIN
                    THROW 52000, N'To zamówienie nie jest na wynos!', 1
                END
            UPDATE Orders SET OrderStatus = @OrderStatus WHERE OrderID =
@OrderID
        END TRY
        BEGIN CATCH
            DECLARE @msg nvarchar(2048) = N'Błąd odrzucenia zamówienia: '
+ ERROR MESSAGE();
           THROW 52000, @msg, 1
        END CATCH
```

```
END
GO
```

## 6.31. changeEmployeeResponsibleForOrder

```
CREATE PROCEDURE changeEmployeeResponsibleForOrder @OrderID int, @StaffID
int.
AS
    BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF NOT EXISTS(SELECT * FROM Orders WHERE ReservationID =
@OrderID)
                BEGIN;
                    THROW 52000, N'Nie ma takiego zamówienia!', 1
                END
            IF NOT EXISTS (SELECT * FROM Staff WHERE StaffID = @StaffID)
                    THROW 52000, N'Nie ma takiego pracownika!', 1
            UPDATE Orders SET StaffID = @StaffID WHERE ReservationID =
@OrderID
        END TRY
        BEGIN CATCH
            DECLARE @msg nvarchar(2048) = N'Błąd w zmianie pracownika: ' +
ERROR MESSAGE();
            THROW 52000, @msg, 1
        END CATCH
    END
GO;
```

# 6.32. changeEmployeeResposibleForReservation

```
CREATE PROCEDURE changeEmployeeResponsibleForReservation @ReservationID
int, @StaffID int
AS
    BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF NOT EXISTS(SELECT * FROM Reservation WHERE ReservationID =
@ReservationID)
                BEGIN:
                    THROW 52000, N'Nie ma takiej rezerwacji!', 1
                END
            IF NOT EXISTS (SELECT * FROM Staff WHERE StaffID = @StaffID)
                BEGIN;
                    THROW 52000, N'Nie ma takiego pracownika!', 1
            UPDATE Reservation SET StaffID = @StaffID WHERE ReservationID
= @ReservationID
        END TRY
```

```
BEGIN CATCH

DECLARE @msg nvarchar(2048) = N'Błąd w zmianie pracownika: ' +

ERROR_MESSAGE();

THROW 52000, @msg, 1

END CATCH

END

GO;
```

#### 6.33. showBestDiscount

```
CREATE PROCEDURE showBestDiscount @ClientID int, @DiscountType varchar
    BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF NOT EXISTS(SELECT * FROM Clients WHERE ClientID =
@ClientID)
            BEGIN;
                THROW 52000, N'Nie ma takiego klienta!', 1
            END
            IF LOWER(@DiscountType) LIKE 'temporary'
                BEGIN;
                    SELECT max (Discount Value) AS 'Discount Value' FROM
IndividualClient I
                        INNER JOIN Discounts D ON I.ClientID = D.ClientID
                        INNER JOIN DiscountsVar DV ON DV.VarID = D.VarID
                    WHERE DiscountType = 'Temporary'
                        AND I.ClientID = @ClientID
                        AND AppliedDate <= getdate() AND GETDATE() <=
dateadd(DAY, ValidityPeriod, AppliedDate)
            ELSE IF LOWER(@DiscountType) LIKE 'permanent'
                BEGIN:
                    SELECT max(DiscountValue) AS 'Discount Value' FROM
IndividualClient I
                        INNER JOIN Discounts D ON I.ClientID = D.ClientID
                        INNER JOIN DiscountsVar DV ON DV.VarID = D.VarID
                    WHERE DiscountType = 'Permanent'
                        AND I.ClientID = @ClientID
                        AND AppliedDate <= getdate() AND GETDATE() <=</pre>
dateadd(DAY, ValidityPeriod, AppliedDate)
                END
            ELSE
                BEGIN
                   THROW 52000, N'Nie ma takiego typu zniżki', 1
        END TRY
        BEGIN CATCH
            DECLARE @msg nvarchar(2048) = N'Błąd wyświetlenia zniżki: ' +
ERROR MESSAGE();
            THROW 52000, @msg, 1
        END CATCH
    END
```

# 6.34. changeReservationStatus

```
CREATE PROCEDURE changeReservationStatus @ReservationID int, @Status
varchar(15)
AS
   BEGIN
        SET NOCOUNT ON
       BEGIN TRY
            IF NOT EXISTS (SELECT * FROM Reservation WHERE ReservationID =
@ReservationID)
                BEGIN;
                    THROW 52000, N'Nie ma takiej rezerwacji!', 1
            UPDATE Reservation SET Status = @Status
            WHERE Reservation.ReservationID = @ReservationID
        END TRY
        BEGIN CATCH
            DECLARE @msg nvarchar(2048) = N'Błąd edytowania rezerwacji: '
+ ERROR MESSAGE();
            THROW 52000, @msg, 1
        END CATCH
    END
```

#### 6.35. AddProductToOrder

```
CREATE PROCEDURE AddProductToOrder @OrderID int,
                                   @Quantity int,
                                   @ProductName nvarchar(50)
AS
    BEGIN
        SET NOCOUNT ON
        BEGIN TRY
        IF NOT EXISTS(SELECT * FROM Products WHERE Name = @ProductName)
          BEGIN;
                THROW 52000, N'Nie ma takiej potrawy', 1
          END
        IF NOT EXISTS (SELECT * FROM Orders WHERE OrderID = @OrderID)
            BEGIN;
                THROW 52000, 'Nie ma takiego zamowienia', 1
        IF NOT EXISTS (SELECT * FROM CurrentMenu CM WHERE CM. Name like
@ProductName)
        BEGIN;
            THROW 52000, N'Nie mozna zamowic tego produktu, gdyz nie ma go
obecnie w menu', 1
        END
        DECLARE @OrderDate DATE
        SELECT @OrderDate = OrderDate FROM Orders WHERE OrderID = @OrderID
DECLARE @CategoryName nvarchar(50)
        SELECT @CategoryName = CategoryName FROM Products
```

```
INNER JOIN Category ON Category.CategoryID =
Products.CategoryID
       WHERE
        Products.Name = @ProductName
        DECLARE @ProductID INT
        SELECT @ProductID = ProductID FROM Products WHERE Name =
@ProductName
        IF EXISTS(SELECT * FROM OrderDetails WHERE OrderID = @OrderID AND
ProductID = @ProductID)
        BEGIN;
            THROW 52000, N'Produkt jest już w zamówieniu!', 1
        DECLARE @BasePrice money
        SELECT @BasePrice = Price from CurrentMenu CM where CM.Name LIKE
@ProductName
        DECLARE @CurrentValue money
        DECLARE @ClientID int
        DECLARE @DiscMulti decimal(3, 2);
       SELECT @CurrentValue = OrderSum FROM [Orders] WHERE OrderID =
@OrderId
       SELECT @ClientID = ClientID, @OrderDate = OrderDate FROM Orders
WHERE OrderID = @OrderId
        SELECT @DiscMulti = dbo.calculateDiscountForClient(@ClientID)
        INSERT INTO OrderDetails (OrderID, Quantity, ProductID) VALUES
(@OrderID, @Quantity, @ProductID)
        IF @DiscMulti IS NOT NULL
           BEGIN
                UPDATE Orders SET OrderSum = @CurrentValue + (@BasePrice *
@Quantity * @DiscMulti) WHERE OrderID = @OrderID
            END
        ELSE
            BEGIN
                UPDATE Orders SET OrderSum = @CurrentValue + (@BasePrice *
@Quantity * 1) WHERE OrderID = @OrderID
            END
        END TRY
        BEGIN CATCH
           DECLARE @msg nvarchar(2048) = N'Błąd dodania produktu do
zamowienia: ' + ERROR MESSAGE();
           THROW 52000, @msg, 1
        END CATCH
   END
go
```

## 6.36. EmployeeAssignedToTheOrder

CREATE PROCEDURE EmployeeAssignedToTheOrder @OrderID int

```
AS
    BEGIN
        SET NOCOUNT ON
        BEGIN TRY
        IF NOT EXISTS(SELECT * FROM Orders
                        WHERE OrderID = @OrderID
        BEGIN;
            THROW 52000, 'Nie ma takiego zamowienia', 1
        SELECT S.FirstName, S.LastName, S.Position, S.Email, S.Phone,
O.OrderID, O.OrderStatus, O.OrderDate FROM Staff AS S
            INNER JOIN Orders O ON O.StaffID = S.StaffID
        WHERE
            O.OrderID = @OrderID
        END TRY
        BEGIN CATCH
            DECLARE @msg nvarchar(2048) = 'Błąd wypisywania pracownikow:'
+ ERROR MESSAGE();
           THROW 52000, @msg, 1
        END CATCH
    END
GO
```

## 6.37. getDishesForDay

```
CREATE PROCEDURE dbo.getDishesForDay @data Date
AS
   BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            SELECT O.OrderID, cast (OrderCompletionDate AS Date) AS
'OrderCompletionDate', P.Name, sum(OD.Quantity) AS 'Quantity' FROM Orders
                 INNER JOIN OrderDetails OD ON O.OrderID = OD.OrderID
                 INNER JOIN Products P ON OD.ProductID = P.ProductID
            WHERE cast (OrderCompletionDate AS Date) = @data
            GROUP BY O.OrderID, O.OrderCompletionDate, P.Name
        END TRY
        BEGIN CATCH
            DECLARE @msg varchar(2048) = N'Bład wyświetlenia danych: ' +
ERROR MESSAGE();
            THROW 52000, @msg, 1
        END CATCH
   END
```

#### 6.38. ClientStaticstics

```
CREATE PROCEDURE Client_Statistics @ClientID int
AS
BEGIN
SET NOCOUNT ON
```

```
BEGIN TRY
            IF NOT EXISTS (SELECT ClientID FROM Clients WHERE ClientID =
@ClientID)
                    throw 52000, 'Nie ma takiego klienta!', 1
                END
            DECLARE @PaymentStatusID int
            SELECT @PaymentStatusID = PaymentStatusID FROM PaymentStatus
WHERE PaymentStatusName LIKE 'Paid'
            SELECT O.OrderID, O.OrderDate, O.OrderSum, O.OrderSum -
02.no disc AS [discount value], 1 - (02.no_disc/0.OrderSum) AS [discount
multiplier | FROM Orders O
                INNER JOIN (SELECT O. OrderID, sum (Quantity) AS no disc
                            FROM Orders O
                                INNER JOIN OrderDetails OD ON O.OrderID =
OD.OrderID
                                INNER JOIN Products P ON OD.ProductID =
P.ProductID
                                INNER JOIN MenuDetails MD ON P.ProductID =
MD.ProductID
                                INNER JOIN Menu M ON MD.MenuID = M.MenuID
                            WHERE M.startDate <= GETDATE() AND (M.endDate</pre>
IS NULL OR M.endDate >= getdate())
                            GROUP BY O.OrderID) 02 ON 02.OrderID =
O.OrderID
                WHERE ClientID = @ClientID AND PaymentStatusID =
@PaymentStatusID
        END TRY
        BEGIN CATCH
           DECLARE @msg nvarchar(2048) = 'Błąd wyswietlenia statystyk o
kliencie: ' + ERROR MESSAGE();
           THROW 52000, @msg, 1
        END CATCH
   END
```

# 6.39. AddPaymentStatus

```
CREATE PROCEDURE AddPaymentStatus @PaymentStatusName varchar(50)

AS

BEGIN

SET NOCOUNT ON

BEGIN TRY

IF EXISTS(SELECT * FROM PaymentStatus WHERE PaymentStatusName)

BEGIN;

THROW 52000, 'Istnieje już taki status płatności', 1

END

INSERT INTO PaymentStatus (PaymentStatusName) VALUES

(@PaymentStatusName)

END TRY

BEGIN CATCH
```

## 6.40. RemovePaymentStatus

```
CREATE PROCEDURE RemovePaymentStatus @PaymentStatusID int
    BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF NOT EXISTS(SELECT * FROM PaymentStatus WHERE
PaymentStatusID = @PaymentStatusID)
                BEGIN;
                    THROW 52000, 'Nie ma takiego statusu płatności', 1
                END
            DELETE FROM PaymentStatus WHERE PaymentStatusID =
@PaymentStatusID
        END TRY
        BEGIN CATCH
           DECLARE @msg nvarchar(2048) = 'Błąd usunięcia statusu
płatności: ' + ERROR MESSAGE();
           THROW 52000, @msq, 1
        END CATCH
    END
GO
```

# 6.41. RemovePaymentMethod

```
CREATE PROCEDURE RemovePaymentMethod @PaymentMethodID int
AS
    BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF NOT EXISTS (SELECT * FROM PaymentMethods WHERE
PaymentMethodID = @PaymentMethodID)
                BEGIN:
                    THROW 52000, 'Nie ma takiej metody płatności', 1
            DELETE FROM PaymentMethods WHERE PaymentMethodID =
@PaymentMethodID
        END TRY
        BEGIN CATCH
            DECLARE @msg nvarchar(2048) = 'Błąd usunięcia metody
płatności: ' + ERROR MESSAGE();
            THROW 52000, @msg, 1
        END CATCH
    END
GO
```

# 6.42. AddPaymentMethod

```
CREATE PROCEDURE AddPaymentMethod @PaymentMethodName varchar(50)
AS
   BEGIN
        SET NOCOUNT ON
        BEGIN TRY
           IF EXISTS(SELECT * FROM PaymentMethods WHERE PaymentName =
@PaymentMethodName)
                BEGIN;
                    THROW 52000, 'Istnieje już taka metoda płatności', 1
            INSERT INTO PaymentMethods (PaymentName) VALUES
(@PaymentMethodName)
        END TRY
        BEGIN CATCH
            DECLARE @msg nvarchar(2048) = 'Błąd dodania metody płatności:
' + ERROR MESSAGE();
           THROW 52000, @msg, 1
        END CATCH
    END
GO
```

### 6.43. AddTakeAway

```
CREATE PROCEDURE AddTakeaway @PrefDate datetime

AS

BEGIN

SET NOCOUNT ON

BEGIN TRY

INSERT INTO OrdersTakeaways (PrefDate) VALUES (@PrefDate)

END TRY

BEGIN CATCH

DECLARE @msg nvarchar(2048) = 'Błąd dodania zamowienia: ' +

ERROR_MESSAGE();

THROW 52000, @msg, 1

END CATCH

END

GO
```

## 6.44. AddTakeawayToOrder

```
CREATE PROCEDURE AddTakeawayToOrder @OrderID int, @PrefDate datetime

AS

BEGIN

SET NOCOUNT ON

BEGIN TRY

IF NOT EXISTS(SELECT * FROM Orders WHERE OrderID = @OrderID)

BEGIN;

THROW 52000, 'Nie ma takiego zamowienia', 1

END
```

```
IF @PrefDate < GETDATE()</pre>
                BEGIN
                    THROW 52000, N'Data nie może być wcześniejsza niż
dzisiejsza!', 1
                END
            EXEC AddTakeaway @PrefDate
            DECLARE @TakeawayID int;
            SELECT @TakeawayID = MAX(TakeawaysID) FROM OrdersTakeaways
            UPDATE Orders SET TakeawayID = @TakeawayID WHERE OrderID =
@OrderID
        END TRY
        BEGIN CATCH
            DECLARE @msq nvarchar(2048) = 'Błąd dodania zamowienia do
zamowienia: ' + ERROR MESSAGE();
            THROW 52000, @msg, 1
        END CATCH
    END
GO
```

#### 6.45. AddReservationToOrder

```
CREATE PROCEDURE AddReservationToOrder @OrderID int, @ReservationID int
AS
    BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF NOT EXISTS(SELECT * FROM Orders WHERE OrderID = @OrderID)
                BEGIN:
                    THROW 52000, 'Nie ma takiego zamowienia', 1
                END
            IF NOT EXISTS (SELECT * FROM Reservation WHERE ReservationID =
@ReservationID)
                BEGIN;
                    THROW 52000, 'Nie ma takiego rezerwacji', 1
            DECLARE @ReservationIDAssignmentToOrder int
            SET @ReservationIDAssignmentToOrder = (SELECT ReservationID
FROM Orders WHERE OrderID = @OrderID)
            IF @ReservationIDAssignmentToOrder IS NOT NULL
                    THROW 52000, N'To zamówienie ma już swoją
rezerwację!', 1
                END
            UPDATE Orders SET ReservationID = @ReservationID WHERE OrderID
= @OrderID
        END TRY
        BEGIN CATCH
           DECLARE @msg nvarchar(2048) = 'Błąd dodania rezerwacji do
zamowienia: ' + ERROR MESSAGE();
            THROW 52000, @msg, 1
        END CATCH
```

```
END
go
```

#### 6.46. AddReservation

```
CREATE PROCEDURE AddReservation @ClientID int, @OrderID int, @StartDate
datetime, @EndDate datetime, @StaffID int
AS
    BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF @StartDate >= @EndDate
                BEGIN
                    THROW 52000, 'Data końca musi być większa od startu!',
1
                END
            IF NOT EXISTS(SELECT * FROM Clients WHERE ClientID =
@ClientID)
                BEGIN;
                        THROW 52000, N'Nie ma takiego klienta', 1
                END
            IF NOT EXISTS (SELECT * FROM Staff WHERE StaffID = @StaffID)
                BEGIN;
                        THROW 52000, N'Nie ma takiego pracownika', 1
                END
            DECLARE @ReservationIDAssignmentToOrder int
            SET @ReservationIDAssignmentToOrder = (SELECT ReservationID
FROM Orders WHERE OrderID = @OrderID)
            IF @ReservationIDAssignmentToOrder IS NOT NULL
                    THROW 52000, N'To zamówienie ma już swoją
rezerwacje!', 1
                END
            DECLARE @ReservationID int
            DECLARE @PersonID int
            SELECT @ReservationID = ISNULL(MAX(ReservationID), 0) + 1 FROM
Reservation
            INSERT INTO Reservation (ReservationID, startDate, endDate,
Status, StaffID)
            VALUES (@ReservationID,@StartDate, @EndDate, 'waiting',
@StaffID)
            IF EXISTS(SELECT * FROM Companies WHERE ClientID = @ClientID)
                BEGIN;
                    INSERT INTO ReservationCompany (ReservationID,
ClientID, PersonID)
                    VALUES (@ReservationID, @ClientID, null)
            ELSE
```

```
BEGIN;

SELECT @PersonID=PersonID from IndividualClient WHERE

ClientID = @ClientID

INSERT INTO ReservationIndividual (ReservationID,

ClientID, PersonID)

VALUES (@ReservationID, @ClientID, @PersonID)

END

EXEC AddReservationToOrder @OrderID, @ReservationID

END TRY

BEGIN CATCH

DECLARE @msg nvarchar(2048) = 'Błąd dodania rezerwacji: '

+ ERROR_MESSAGE();

THROW 52000, @msg, 1

END CATCH

END

GO
```

#### 6.47 RemoveReservation

```
CREATE PROCEDURE RemoveReservation @ReservationID int
AS
    BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF NOT EXISTS(SELECT * FROM Reservation WHERE ReservationID =
@ReservationID)
                BEGIN;
                    THROW 52000, 'Nie ma takiej rezerwacji', 1
            DELETE FROM Reservation WHERE ReservationID = @ReservationID
        END TRY
        BEGIN CATCH
            DECLARE @msg nvarchar(2048) = 'Bład usuniecia rezerwacji: ' +
ERROR MESSAGE();
            THROW 52000, @msg, 1
        END CATCH
    END
GO
```

#### 6.48. addTableToReservation

```
CREATE PROCEDURE addTableToReservation @ReservationID int, @TableID int
AS

BEGIN

SET NOCOUNT ON

BEGIN TRY

IF NOT EXISTS(SELECT * FROM TABLES WHERE TableID = @TableID)
```

```
BEGIN:
                THROW 52000, 'Nie ma takiego stolika! ', 1
            END
            IF NOT EXISTS(SELECT * FROM Orders WHERE ReservationID =
@ReservationID)
            BEGIN;
                THROW 52000, 'Nie ma takiej rezerwacji! ', 1
            END
            INSERT INTO ReservationDetails(ReservationID, TableID)
            VALUES (@ReservationID, @TableID)
        END TRY
        BEGIN CATCH
            DECLARE @msq nvarchar(2048) = 'Błąd dodania stolika do
rezerwacji: ' + ERROR MESSAGE();
            THROW 52000, @msg, 1
        END CATCH
    END
GO
```

#### 6.49. removeTableFromReservation

```
CREATE PROCEDURE removeTableFromReservation @ReservationID int, @TableID
int
AS
    BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF NOT EXISTS(SELECT * FROM TABLES WHERE TableID = @TableID)
                THROW 52000, 'Nie ma takiego stolika! ', 1
            END
            IF NOT EXISTS(SELECT * FROM Orders WHERE ReservationID =
@ReservationID)
                THROW 52000, 'Nie ma takiej rezerwacji!', 1
            DELETE FROM ReservationDetails WHERE ReservationID =
@ReservationID AND TableID = @TableID
        END TRY
        BEGIN CATCH
            DECLARE @msg nvarchar(2048) = 'Błąd dodania stolika do
rezerwacji: ' + ERROR MESSAGE();
            THROW 52000, @msg, 1
        END CATCH
    END
GO
```

### 6.50. AddReservationVar

```
CREATE PROCEDURE AddReservationVar @WK int, @WZ money, @startDate
```

```
datetime, @endDate datetime = NULL
AS
   BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF EXISTS (SELECT * FROM ReservationVar WHERE WZ = @WZ AND WK =
@WK AND startDate = @startDate AND endDate = @endDate)
                BEGIN:
                    THROW 52000, 'Istnieje już taka zmienna dotycząca
rezerwacji', 1
                END
            INSERT INTO ReservationVar (WZ, WK, startDate, endDate) VALUES
(@WZ, @WK, @startDate, @endDate)
        END TRY
        BEGIN CATCH
            DECLARE @msg nvarchar(2048) = 'Błąd dodania zmiennej
dotyczącej rezerwacji: ' + ERROR MESSAGE();
            THROW 52000, @msg, 1
        END CATCH
   END
GO
```

#### 6.51 AddDiscountVar

Jeśli dodajemy zniżke tymczasową to dodajemy @ValidityPeriod, a jeżeli pernamentną to @MinimalOrders

```
CREATE PROCEDURE AddDiscountVar @MinimalOrders int = NULL, @MinimalValue
money, @ValidityPeriod int = NULL, @DiscountValue decimal(3,2), @StartDate
datetime, @EndDate datetime = NULL
AS
    BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF EXISTS(SELECT * FROM DiscountsVar WHERE ((MinimalOrders =
@MinimalOrders AND ValidityPeriod = @ValidityPeriod) OR
MinimalAggregateValue = @MinimalValue) AND DiscountValue = @DiscountValue
AND startDate = @StartDate AND endDate = @EndDate)
                BEGIN;
                    THROW 52000, N'Istnieje już taka zmienna dotycząca
rabatu!', 1
                END
            IF @MinimalOrders IS NULL AND @ValidityPeriod IS NULL
                BEGIN:
                    THROW 52000, N'Nie można dodać zmiennych bez warunków!
Podaj @MinimalOrders dla zniżki permanentnej lub @ValidityPeriod dla
zniżki tymczasowej', 1
            IF @ValidityPeriod IS NOT NULL AND @MinimalOrders IS NULL
                BEGIN;
                    INSERT INTO DiscountsVar (DiscountType, MinimalOrders,
MinimalAggregateValue, ValidityPeriod, DiscountValue, startDate, endDate)
VALUES ('Temporary', @MinimalOrders, @MinimalValue, @ValidityPeriod,
```

```
@DiscountValue, @StartDate, @EndDate)
                END
            IF @MinimalOrders IS NOT NULL AND @ValidityPeriod IS NULL
                BEGIN:
                    INSERT INTO DiscountsVar (DiscountType, MinimalOrders,
MinimalAggregateValue, ValidityPeriod, DiscountValue, startDate, endDate)
VALUES ('Permanent', @MinimalOrders, @MinimalValue, @ValidityPeriod,
@DiscountValue, @StartDate, @EndDate)
        END TRY
        BEGIN CATCH
           DECLARE @msg nvarchar(2048) = N'Błąd dodania zmiennej
dotyczącej rabatu: ' + ERROR MESSAGE();
           THROW 52000, @msg, 1
        END CATCH
    END
go
```

#### 6.52. addDiscount

@DiscountType:

- Permanent
- Temporary

```
CREATE PROCEDURE addDiscount @ClientID int, @DiscountType char(9)
AS
   BEGIN
        BEGIN TRY
           IF NOT EXISTS (SELECT * FROM IndividualClient WHERE
ClientID = @ClientID)
                BEGIN
                    THROW 52000, N'Nie ma takiego klienta
indywidualnego! ', 1
            IF LOWER(@DiscountType) NOT IN('permanent', 'temporary')
                    THROW 52000, N'Nie ma takiego typu zniżki! ', 1
                END
            DECLARE @VarID int
            SET @VarID = (SELECT VarID FROM DiscountsVar WHERE
LOWER(DiscountType) LIKE LOWER(@DiscountType) AND (startDate <=
GETDATE() AND (endDate IS NULL OR endDate >= GETDATE())))
            IF EXISTS(SELECT * FROM Discounts WHERE ClientID =
@ClientID AND CAST(AppliedDate AS date) = CAST(GETDATE() AS DATE)
AND VarID = @VarID)
                BEGIN
                    return
                END
```

```
IF @DiscountType LIKE 'Permanent'
                    INSERT INTO Discounts (ClientID, VarID,
AppliedDate, isUsed)
                    VALUES(@ClientID, @VarID, GETDATE(), NULL)
                END
            ELSE
                BEGIN
                    INSERT INTO Discounts (ClientID, VarID,
AppliedDate)
                    VALUES(@ClientID, @VarID, GETDATE())
                END
        END TRY
        BEGIN CATCH
           DECLARE @msg nvarchar(2048) = N'Błąd dodania zmiennej
dotyczącej rabatu: ' + ERROR MESSAGE();
           THROW 52000, @msg, 1
        END CATCH
   END
go
```

### 6.53. addEmployeeToCompany

```
CREATE PROCEDURE addEmployeeToCompany @CompanyID int, @PersonID int
AS
   BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF NOT EXISTS(SELECT * FROM Companies WHERE ClientID =
@CompanyID)
            BEGIN;
                THROW 52000, N'Nie ma takiej firmy! ', 1
            END
            IF NOT EXISTS(SELECT * FROM Person WHERE PersonID = @PersonID)
            BEGIN;
                THROW 52000, N'Nie ma takiej osoby! ', 1
            END
            INSERT INTO Employees(PersonID, CompanyID)
            VALUES (@PersonID, @CompanyID)
        END TRY
        BEGIN CATCH
            DECLARE @msg nvarchar(2048) = N'Błąd dodania pracownika do
firmy: ' + ERROR MESSAGE();
            THROW 52000, @msq, 1
        END CATCH
   END
GO
```

# 6.54. removeEmployeeFromCompany

```
CREATE PROCEDURE removeEmployeeFromCompany @CompanyID int, @PersonID int
AS
    BEGIN
        SET NOCOUNT ON
        BEGIN TRY
            IF NOT EXISTS(SELECT * FROM Companies WHERE ClientID =
@CompanyID)
            BEGIN;
                THROW 52000, N'Nie ma takiej firmy! ', 1
            IF NOT EXISTS(SELECT * FROM Person WHERE PersonID = @PersonID)
            BEGIN;
                THROW 52000, N'Nie ma takiej osoby! ', 1
            DELETE FROM Employees WHERE PersonID = @PersonID AND CompanyID
= @CompanyID
        END TRY
        BEGIN CATCH
           DECLARE @msg nvarchar(2048) = N'Błąd usunięcia pracownika z
firmy: ' + ERROR_MESSAGE();
           THROW 52000, @msg, 1
        END CATCH
    END
GO
```

# 7. Funkcje

### 7.1. GetAvgPriceOfMenu

```
CREATE FUNCTION GetAvgPriceOfMenu(@MenuID int) RETURNS money AS BEGIN
RETURN (
    SELECT
        AVG(Price)
    FROM
        MenuDetails
    WHERE
        MenuID = @MenuID
) END
GO
```

#### 7.2. GetMinimumPriceOfMenu

### 7.3. GetMaximumPriceOfMenu

## 7.4. getNotReservedTablesOnAParticularDay

```
CREATE FUNCTION getNotReservedTablesOnAParticularDay(@Date datetime)
RETURNS TABLE

AS

RETURN (SELECT TableID, ChairAmount FROM Tables

WHERE TableID NOT IN(SELECT ReservationDetails.TableID
FROM ReservationDetails

INNER JOIN ReservationCompany
RC ON RC.ReservationID = ReservationDetails.ReservationID
```

```
INNER JOIN Reservation R2 ON
RC.ReservationID = R2.ReservationID
                                         WHERE
                                            (CAST(@Date AS date) =
CAST(startDate AS date))
                                            AND (CAST(@Date AS date) =
CAST(endDate AS date))
                                            AND (STATUS NOT LIKE
'cancelled' AND STATUS NOT LIKE 'denied')
                                            AND isActive = 1
                                        ) AND isActive = 1
                UNION
                SELECT TableID, ChairAmount FROM Tables
                   WHERE TableID NOT IN (SELECT ReservationDetails.TableID
FROM ReservationDetails
                                            INNER JOIN
ReservationIndividual RC ON RC.ReservationID =
ReservationDetails.ReservationID
                                            INNER JOIN Reservation R2 ON
RC.ReservationID = R2.ReservationID
                                          WHERE
                                                 (CAST(@Date AS date) =
CAST(startDate AS date))
                                                AND (CAST(@Date AS date) =
CAST(endDate AS date))
                                                AND (
                                                    STATUS NOT LIKE
'cancelled'
                                                    AND STATUS NOT LIKE
'denied'
                                                 AND isActive = 1
                                        ) AND isActive = 1
               )
GO
```

#### 7.5. showTakenTablesFromXToYWithZChairs

```
INNER JOIN ReservationCompany RC ON RC.ReservationID =
RD.ReservationID
   INNER JOIN Reservation R2 ON RC.ReservationID = R2.ReservationID
    INNER JOIN Orders O ON R2.ReservationID = O.ReservationID
WHERE
    R2.startDate >= @StartDate
    AND R2.endDate <= @EndDate
    AND T.ChairAmount = @Chairs
UNION
SELECT
    T.TableID,
    T.ChairAmount,
   O.ClientID,
   O.OrderID,
    R2.startDate,
    R2.endDate
FROM
    TABLES T
    INNER JOIN ReservationDetails RD ON T.TableID = RD.TableID
    INNER JOIN ReservationIndividual RC ON RC.ReservationID =
RD.ReservationID
    INNER JOIN Reservation R2 ON RC.ReservationID = R2.ReservationID
    INNER JOIN Orders O ON R2.ReservationID = O.ReservationID
WHERE
   R2.startDate >= @StartDate
    AND R2.endDate <= @EndDate
    AND T.ChairAmount = @Chairs
GO
```

### 7.6. ShowFreeTablesFromXToYWithZChairs

```
CREATE FUNCTION showFreeTablesFromXToYWithZChairs(
        @StartDate datetime,
        @EndDate datetime,
        @Chairs int
    ) RETURNS TABLE AS RETURN
SELECT
    T.TableID,
    T.ChairAmount
FROM
    TABLES T
WHERE
    T.TableID NOT IN (
        SELECT
            Q.TableID
        FROM
            show_taken_tables_from_x_to_y_with_z_chairs(@StartDate,
@EndDate, @Chairs) Q
    AND T. is Active = 1
    AND ChairAmount = @Chairs
GO
```

### 7.7. GetBestMeal

```
CREATE FUNCTION GetBestMeal(@input int) RETURNS TABLE AS RETURN

SELECT
    DISTINCT TOP (@input) P.Name,
    MMI.times_sold

FROM
    Products P
    INNER JOIN mealMenuInfo MMI ON P.ProductID = MMI.ProductID

ORDER BY
    MMI.times_sold

GO
```

### 7.8. GetClientsOrderedMoreThanXTimes

```
CREATE FUNCTION GetClientsOrderedMoreThanXTimes(@amount int) RETURNS TABLE
AS RETURN
SELECT

*
FROM
ClientStatistics
WHERE
[times ordered] > @amount
GO
```

# 7.9. GetClientsOrderedMoreThanXValue

```
CREATE FUNCTION GetClientsOrderedMoreThanXValue(@value float) RETURNS
TABLE AS RETURN
SELECT

*
FROM
ClientStatistics
WHERE
[value ordered] > @value
go
```

## 7.10. GetClientsWhoOweMoreThanX

```
CREATE FUNCTION GetClientsWhoOweMoreThanX(@value int) RETURNS TABLE AS
RETURN
SELECT
ClientID,
[money to pay]
FROM
individualClientsWhoNotPayForOrders
WHERE
[money to pay] > @value
```

```
UNION
SELECT
    ClientID,
    [money to pay]
FROM
    companiesWhoNotPayForOrders
WHERE
    [money to pay] > @value
GO
```

## 7.11. caluculateBestDiscountTemporary

```
CREATE FUNCTION calculateBestDiscountTemporary(@ClientID int) RETURNS
Table
AS
    RETURN (SELECT DiscountValue, DiscountID FROM
                            (SELECT DiscountValue, DiscountID,
ROW NUMBER() over (order by DiscountValue DESC ) as 'Row number' FROM
Discounts
                                    INNER JOIN DiscountsVar DV ON DV.VarID
= Discounts.VarID
                            WHERE ClientID = @ClientID
                                    AND DiscountType = 'Temporary'
                                    AND isUsed = 0
                                    AND AppliedDate <= getdate() AND
GETDATE() <= dateadd(DAY, ValidityPeriod, AppliedDate)</pre>
                            ) CTE
                        WHERE [Row number] = 1
```

#### 7.12. calculateBestDiscountPermanent

#### 7.13. caluclateDiscountForClient

```
CREATE FUNCTION calculateDiscountForClient(@ClientID int) RETURNS
@Discount Table(ID int, Value decimal(3,2), Type nvarchar(50))
AS
    BEGIN
        DECLARE @BestValue decimal(3, 2);
        DECLARE @DiscountID int
        DECLARE @Permanent int
       DECLARE @Temporary int
        SET @Permanent = (SELECT COUNT(*) FROM
dbo.calculateBestDiscountPermanent(@ClientID))
        SET @Temporary = (SELECT COUNT(*) FROM
dbo.calculateBestDiscountTemporary(@ClientID))
    IF (@Permanent + @Temporary) = 0
            INSERT @Discount(ID, Value, Type)
            VALUES (
                    NULL,
                    NULL,
                    NULL
            RETURN
        END
    IF @Permanent = 0 AND @Temporary = 1
        BEGIN
            SELECT @BestValue = DiscountValue, @DiscountID = DiscountID
FROM dbo.calculateBestDiscountTemporary(@ClientID)
            INSERT @Discount(ID, Value, Type)
            values (
                        @DiscountID,
                        @BestValue,
                        'Temporary'
            RETURN
    IF @Permanent = 1 AND @Temporary = 0
            SELECT @BestValue = DiscountValue, @DiscountID = DiscountID
FROM dbo.calculateBestDiscountPermanent(@ClientID)
            INSERT @Discount(ID, Value, Type)
            values (
                        @DiscountID,
                        @BestValue,
                        'Permanent'
            RETURN
        END
    DECLARE @PermanentValue decimal(3,2)
    DECLARE @PermanentID int
    DECLARE @TemporaryValue decimal(3,2)
    DECLARE @TemporaryID int
```

```
SELECT @TemporaryValue = DiscountValue, @TemporaryID = DiscountID FROM
dbo.calculateBestDiscountTemporary(@ClientID)
   SELECT @PermanentValue = DiscountValue, @PermanentID = DiscountID FROM
dbo.calculateBestDiscountPermanent(@ClientID)
    IF @PermanentValue > @TemporaryValue
            INSERT @Discount(ID, Value, Type)
            values (
                        @PermanentID,
                        @PermanentValue,
                        'Permanent'
            RETURN
        END
        INSERT @Discount(ID, Value, Type)
        values (
                    @TemporaryID,
                    @TemporaryValue,
                    'Temporary'
        RETURN
   END
GO
```

# 7.14. sumOfMoneySpentIn Month Year

#### 7.15. GetOrdersDetails

```
CREATE FUNCTION GetOrderDetails(@InputOrderID int) RETURNS TABLE

AS

RETURN (
SELECT

O.OrderID,
O.ClientID,
ISNULL(cast(O.TakeawayID as varchar), 'Order not for takeaway') as 'TakeAwayID',
ISNULL(cast(O.ReservationID as varchar), 'Order is not for reservation') as 'ReservationID',
ISNULL(cast(O.InvoiceID as varchar), 'Order does not have invoice.') as 'InvoiceID',
```

```
PM. PaymentName,
            PS.PaymentStatusName,
            CONCAT(S.LastName, ' ', S.FirstName) as 'Employee',
            O.OrderSum,
            O.OrderDate,
            ISNULL (convert (varchar, O.OrderCompletionDate, 120), 'Order is
pending') as 'OrderCompletionDate',
            O.OrderStatus,
            P.Name,
            (SELECT MD. Price FROM MenuDetails MD INNER JOIN CurrentMenu CM
on MD.MenuID = CM.MenuID WHERE MD.ProductID = OD.ProductID) as 'Product
Price',
            OD.Quantity
        FROM Orders O
            INNER JOIN OrderDetails OD on O.OrderID = OD.OrderID
            INNER JOIN Products P ON P.ProductID = OD.ProductID
            INNER JOIN PaymentMethods PM on O.PaymentMethodID =
PM.PaymentMethodID
            INNER JOIN PaymentStatus PS on O.PaymentStatusID =
PS.PaymentStatusID
            INNER JOIN Staff S on O.staffID = S.StaffID
        WHERE
            O.OrderID = @InputOrderID
   )
GO
```

## 7.16. OrderProductWithin14days

```
CREATE FUNCTION OrderProductWithin14days (@InputProductName nvarchar(150))

RETURNS INT

AS

BEGIN

RETURN (
SELECT
SUM([O D].Quantity)

FROM
OrderDetails AS [O D]
INNER JOIN Products P ON P.ProductID = [O D].ProductID
INNER JOIN Orders O ON O.OrderID = [O D].OrderID
WHERE
P.Name LIKE @InputProductName
AND ABS(DATEDIFF(DAY, O.OrderDate, GETDATE())) <= 14
)
END

GO
```

### 7.17. OrdersMoreExpensiveThanN

```
CREATE FUNCTION OrdersMoreExpensiveThanN (@N int) RETURNS TABLE
AS
RETURN (
SELECT
O.*
FROM
```

```
Orders AS O
WHERE
O.OrderSum > @N
)
GO
```

#### 7.18. What Was Not In The Menu Of Given ID

```
CREATE FUNCTION WhatWasNotInTheMenuOfGivenID(@MenuID int)

RETURNS TABLE AS RETURN

SELECT P.ProductID, P.Name, P.Description as 'Product

Description', P.IsAvailable, C.CategoryName, C.Description as 'Category

Description' FROM Products P

INNER JOIN Category C on C.CategoryID = P.CategoryID

WHERE P.ProductID IN

(SELECT ProductID

FROM Products PI

EXCEPT

SELECT ProductID

FROM MenuDetails

WHERE MenuID=@MenuID) AND P.IsAvailable = 1

GO
```

## 7.19. What Was Not In Previous And Following Menu

```
CREATE FUNCTION WhatWasNotInThePreviousAndFollowingMenu(@MenuID int)
    RETURNS TABLE AS RETURN
        SELECT P.ProductID, P.Name, P.Description as 'Product
Description', C.CategoryName , C.Description as 'Category Description'
FROM Products P
                INNER JOIN Category C on C.CategoryID = P.CategoryID
            WHERE P.ProductID IN
        (SELECT P.ProductID FROM Products PI
            (SELECT ProductID FROM MenuDetails MD
                    INNER JOIN Menu M on M.MenuID = MD.MenuID
                WHERE MD.MenuID=dbo.GetIdOfFollowingMenu(@MenuID)
                    AND ABS(DATEDIFF(day, (SELECT TOP 1 endDate from Menu
inner join MenuDetails D on Menu.MenuID = D.MenuID WHERE D.MenuID =
@MenuID), M.startDate)) <= 1</pre>
         EXCEPT
            (SELECT ProductID FROM MenuDetails
                WHERE MenuID=dbo.GetIdOfPreviousMenu(@MenuID) )
         ) AND P.IsAvailable = 1
Go
```

#### 7.20. MenulsCorrect

```
CREATE FUNCTION MenuIsCorrect(@MenuID int) RETURNS @WhereAreDuplicated
Table(Field nvarchar(100), Field value nvarchar(100))
AS
    BEGIN
        DECLARE @SameItemsPrevious int
        SET @SameItemsPrevious = (
            SELECT
                COUNT (*)
            FROM (
                        SELECT Name, Description FROM
dbo.ShowDuplicatesPreviousMenu (@MenuID)
                    INTERSECT
                        SELECT P.Name, P.Description FROM MenuDetails
INNER JOIN Products P on P.ProductID = MenuDetails.ProductID WHERE MenuID
= @MenuID
                 ) OUT
        )
        DECLARE @SameItemsFollowing int
        SET @SameItemsFollowing = (
            SELECT
                COUNT (*)
            FROM (
                        SELECT Name, Description FROM
dbo.ShowDuplicatesFollowingMenu (@MenuID)
                    INTERSECT
                        SELECT P.Name, P.Description FROM MenuDetails
INNER JOIN Products P on P.ProductID = MenuDetails.ProductID WHERE MenuID
= @MenuID
                 ) OUT
        )
        DECLARE @minAmountToChangePrevious int
        SET @minAmountToChangePrevious = (
            SELECT
                COUNT (*)
            FROM
                MenuDetails
            WHERE
                MenuID = dbo.GetIdOfPreviousMenu(@MenuID)
        DECLARE @minAmountToChangeFollowing int
        SET @minAmountToChangeFollowing = (
            SELECT
                COUNT(*)
            FROM
                MenuDetails
            WHERE
                MenuID = dbo.GetIdOfFollowingMenu (@MenuID)
        ) / 2
        IF @SameItemsFollowing > @minAmountToChangeFollowing
```

```
BEGIN
                INSERT @WhereAreDuplicated(Field, Field value)
                VALUES (
                         'Following',
                         0
                        )
            END
        ELSE
            BEGIN
                INSERT @WhereAreDuplicated(Field, Field value)
                VALUES (
                         'Following',
                         1
                        )
            END
        IF @SameItemsPrevious > @minAmountToChangePrevious
            BEGIN
                INSERT @WhereAreDuplicated(Field, Field value)
                VALUES (
                         'Previous',
                         0
                        )
            END
        ELSE
            BEGIN
                INSERT @WhereAreDuplicated(Field, Field value)
                VALUES (
                         'Previous',
                        )
            END
        RETURN
    END
go
```

## 7.21. GetIdFollowingMenu

```
CREATE FUNCTION GetIdOfFollowingMenu(@MenuID int)
RETURNS int
   AS
        BEGIN
            RETURN (SELECT FollowingID FROM (SELECT MI.MenuID,
LEAD (MenuID) OVER (ORDER BY startDate, endDate) as 'FollowingID' FROM Menu
MI) MO WHERE MO.MenuID = @MenuID)
        END
    GO
CREATE FUNCTION GetIdOfPreviousMenu(@MenuID int)
RETURNS int
   AS
        BEGIN
           RETURN (SELECT PreviousID FROM (SELECT MI.MenuID, LAG(MenuID)
OVER (ORDER BY startDate, endDate) as 'PreviousID' FROM Menu MI) MO WHERE
MO.MenuID = @MenuID)
```

```
END
GO
```

### 7.22. ShowDuplicatesInPreviousAndFollowingMenu

```
CREATE FUNCTION ShowDuplicatesInPreviousAndFollowingMenu(@MenuID int)
RETURNS table
AS
    RETURN SELECT P.Name, P.Description FROM MenuDetails MD
                INNER JOIN Products P on P.ProductID = MD.ProductID
            WHERE MenuID = @MenuID
            (SELECT P.Name, P.Description FROM MenuDetails MD
                INNER JOIN Products P on P.ProductID = MD.ProductID
                INNER JOIN Menu M on M.MenuID = MD.MenuID
            WHERE MD.MenuID = dbo.GetIdOfPreviousMenu(@MenuID)
                AND ABS(DATEDIFF(day, (SELECT TOP 1 Menu.startDate from
Menu inner join MenuDetails D on Menu.MenuID = D.MenuID WHERE D.MenuID =
@MenuID), M.endDate)) <= 1</pre>
            UNION
            SELECT P.Name, P.Description FROM MenuDetails MD
                INNER JOIN Products P on P.ProductID = MD.ProductID
                INNER JOIN Menu M on M.MenuID = MD.MenuID
            WHERE MD.MenuID = dbo.GetIdOfFollowingMenu(@MenuID)
                    AND ABS(DATEDIFF(day, (SELECT TOP 1 endDate from Menu
inner join MenuDetails D on Menu.MenuID = D.MenuID WHERE D.MenuID =
@MenuID), M.startDate)) <= 1)</pre>
```

### 7.23. ShowDuplicatesInPreviousAndFollowingMenuWithID

```
CREATE FUNCTION ShowDuplicatesInPreviousAndFollowingMenuWithID(@MenuID
int)
RETURNS table
    AS
        RETURN SELECT P.ProductID , P.Name, P.Description FROM MenuDetails
MD
                INNER JOIN Products P ON P.ProductID = MD.ProductID
                INNER JOIN Menu M on M.MenuID = MD.MenuID
                WHERE
                    P.Name IN (SELECT MI.Name FROM
dbo.ShowDuplicatesInPreviousAndFollowingMenu(@MenuID) MI)
                    AND MD.MenuID = dbo.GetIdOfPreviousMenu(@MenuID)
                    AND ABS(DATEDIFF(day, (SELECT TOP 1 Menu.startDate
from Menu inner join MenuDetails D on Menu.MenuID = D.MenuID WHERE
D.MenuID = @MenuID), M.endDate)) <= 1</pre>
               UNION
               SELECT P.ProductID, P.Name, P.Description FROM MenuDetails
MD
                    INNER JOIN Products P ON P.ProductID = MD.ProductID
                    INNER JOIN Menu M on M.MenuID = MD.MenuID
```

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```
WHERE

P.Name IN (SELECT MI.Name FROM

dbo.ShowDuplicatesInPreviousAndFollowingMenu(@MenuID) MI)

AND MD.MenuID = dbo.GetIdOfFollowingMenu(@MenuID)

AND ABS(DATEDIFF(day, (SELECT TOP 1 endDate from Menu

inner join MenuDetails D on Menu.MenuID = D.MenuID WHERE D.MenuID =

@MenuID), M.startDate)) <= 1

go
```

### 7.24. ShowDupliactesFollowingMenu

```
CREATE FUNCTION ShowDuplicatesFollowingMenu(@MenuID int)

RETURNS table

AS

RETURN SELECT P.ProductID, P.Name, P.Description FROM MenuDetails MD

INNER JOIN Products P on P.ProductID = MD.ProductID

WHERE MenuID = @MenuID

INTERSECT

(SELECT P.ProductID,P.Name, P.Description FROM MenuDetails MD

INNER JOIN Products P on P.ProductID = MD.ProductID

INNER JOIN Menu M on M.MenuID = MD.MenuID

WHERE MD.MenuID = dbo.GetIdOfFollowingMenu(@MenuID)

AND ABS(DATEDIFF(day, (SELECT TOP 1 endDate from Menu inner join MenuDetails D on Menu.MenuID = D.MenuID WHERE D.MenuID = @MenuID), M.startDate)) <= 1)

go
```

### 7.25. ShowDuplicatesPreviousMenu

```
CREATE FUNCTION ShowDuplicatesPreviousMenu(@MenuID int)
RETURNS table
AS
    RETURN
            SELECT P.ProductID, P.Name, P.Description FROM MenuDetails MD
                INNER JOIN Products P on P.ProductID = MD.ProductID
            WHERE MenuID = @MenuID
    INTERSECT
        (SELECT P.ProductID, P.Name, P.Description FROM MenuDetails MD
                INNER JOIN Products P on P.ProductID = MD.ProductID
                INNER JOIN Menu M on M.MenuID = MD.MenuID
            WHERE MD.MenuID = dbo.GetIdOfPreviousMenu(@MenuID)
                AND ABS(DATEDIFF(day, (SELECT TOP 1 Menu.startDate from
Menu inner join MenuDetails D on Menu.MenuID = D.MenuID WHERE D.MenuID =
@MenuID), M.endDate)) <= 1)</pre>
go
```

### 7.26. GenerateIndividualClientReport

Funkcja generująca raport o danym kliencie indywidualnym na przestrzeni zadanego czasu.

### 7.27. GenerateCompanyReport

Funkcja generująca raport o danej firmie na przestrzeni zadanego czasu.

### 7.28. GenerateTableWeeklyReport

Funkcja generująca tygodniowy raport o stolikach na przestrzeni zadanego czasu.

### 7.29. GenerateTableMonthlyReport

Funkcja generująca miesięczny raport o stolikach na przestrzeni zadanego czasu.

### 7.30. GenerateReservationReport

```
CREATE FUNCTION GenerateReservationReport(@From Date, @To Date)
RETURNS Table
AS
RETURN (
SELECT * FROM ReservationSummary WHERE startDate BETWEEN @From AND
@To
)
GO
```

# 7.31. GenerateReservationMonthlyReport

Funkcja generująca miesięczny raport o rezerwacjach na przestrzeni zadanego czasu.

### 7.32. GenerateReservationWeeklyReport

Funkcja generująca tygodniowy raport o rezerwacjach na przestrzeni zadanego czasu.

### 7.33. GenerateMenuReport

Funkcja generująca raport o zadanym menu.

### 7.34. GenerateOrderReport

Funkcja generująca raport o zadanym zamówieniu.

### 7.35. Generate Discounts Summary For Client

System zarządzania restauracją.

# 7.36. GetInvoice

Funkcja generująca fakturę do danego zamówienia.

# 7.37. GetClientInvoices

```
CREATE FUNCTION GetClientInvoices(@ClientID int)
RETURNS TABLE
AS
RETURN (SELECT * FROM Invoice WHERE ClientID = @ClientID)
GO
```

# 8. Triggery

### 8.1. SeaFoodCheckMonday

blokuje zamówienia, które ze względu na znajdujące się w nim owoce morza, powinny być złożone maksymalnie do poniedziałku poprzedzającego zamówienie.

```
CREATE TRIGGER SeaFoodCheckMonday
   ON OrderDetails
AFTER INSERT
AS BEGIN
  SET NOCOUNT ON
   DECLARE @CategoryID int
    SELECT @CategoryID = CategoryID FROM Category WHERE
LOWER (CategoryName) LIKE 'sea food'
    IF EXISTS (
        SELECT * FROM inserted AS I
            INNER JOIN Orders AS O ON O.OrderID = I.OrderID
            INNER JOIN dbo.OrderDetails OD ON O.OrderID = OD.OrderID
            INNER JOIN Products P ON OD.ProductID = P.ProductID
        WHERE
            (
                DATENAME (WEEKDAY, O.OrderCompletionDate) LIKE 'Thursday'
                AND CategoryID = @CategoryID
            )
            OR
            (
                DATENAME (WEEKDAY, O. OrderCompletionDate) LIKE 'Friday'
                AND CategoryID = @CategoryID
            )
            OR
            (
                DATENAME (WEEKDAY, O. OrderCompletionDate) LIKE 'Saturday'
                AND CategoryID = @CategoryID
            )
            OR
               DATENAME (WEEKDAY, O.OrderDate) LIKE 'Thursday'
            (
                AND CategoryID = @CategoryID
            )
            OR
            (
                DATENAME (WEEKDAY, O. OrderDate) LIKE 'Friday'
                AND CategoryID = @CategoryID
            )
            OR
            (
                DATENAME (WEEKDAY, O.OrderDate) LIKE 'Saturday'
                AND CategoryID = @CategoryID
            )
        )
        OR
        EXISTS (
        SELECT * FROM inserted AS I
            INNER JOIN Orders AS O ON O.OrderID = I.OrderID
            INNER JOIN dbo.OrderDetails OD ON O.OrderID = OD.OrderID
            INNER JOIN Products P ON OD.ProductID = P.ProductID
            INNER JOIN Reservation R2 ON O.ReservationID =
```

```
R2.ReservationID
        WHERE
                DATENAME (WEEKDAY, R2.startDate) LIKE 'Thursday'
                AND DATEDIFF(DAY, O.OrderDate, R2.startDate) <= 2
                AND CategoryID = @CategoryID
            )
            OR
            (
                DATENAME (WEEKDAY, R2.startDate) LIKE 'Friday'
                AND DATEDIFF(DAY, O.OrderDate, R2.startDate) <= 3</pre>
                AND CategoryID = @CategoryID
            OR
                DATENAME (WEEKDAY, R2.startDate) LIKE 'Saturday'
                AND DATEDIFF(DAY, O.OrderDate, R2.startDate) <= 4
                AND CategoryID = @CategoryID
        ) OR EXISTS (
            SELECT * FROM inserted AS I
            INNER JOIN Orders AS O ON O.OrderID = I.OrderID
            INNER JOIN dbo.OrderDetails OD ON O.OrderID = OD.OrderID
            INNER JOIN Products P ON OD.ProductID = P.ProductID
            INNER JOIN OrdersTakeaways OT ON O.TakeawayID = OT.TakeawaysID
        WHERE
               DATENAME (WEEKDAY, OT. PrefDate) LIKE 'Thursday'
                AND DATEDIFF(DAY, O.OrderDate, OT.PrefDate) <= 2
                AND CategoryID = @CategoryID
            )
            OR
            (
                DATENAME (WEEKDAY, OT. PrefDate) LIKE 'Friday'
                AND DATEDIFF(DAY, O.OrderDate, OT.PrefDate) <= 3
                AND CategoryID = @CategoryID
            )
            OR
            (
                DATENAME (WEEKDAY, OT. PrefDate) LIKE 'Saturday'
                AND DATEDIFF(DAY, O.OrderDate, OT.PrefDate) <= 4
                AND CategoryID = @CategoryID
        )
        BEGIN;
            THROW 50001, N'Takie zamówienie winno być złożone maksylamnie
do poniedziałku poprzedzającego zamówienie.', 1
        END
   END
Go
```

#### 8.2. DeleteOrderDetails

Usuwa szczegóły zamówienia z tabeli OrderDetails, jeżeli powiązana z nim rezerwacja została anulowana przez klienta

```
CREATE TRIGGER DeleteOrderDetails
ON OrderDetails
FOR DELETE
AS
BEGIN
    SET NOCOUNT ON
    DELETE FROM OrderDetails WHERE OrderID IN (
        SELECT O.OrderID FROM Orders O
            INNER JOIN Reservation R2 ON R2.ReservationID =
O.ReservationID
        WHERE LOWER(R2.Status) LIKE 'cancelled' OR LOWER(R2.Status) LIKE
'denied'
    DELETE FROM OrderDetails WHERE OrderID IN (
        SELECT O.OrderID FROM Orders O
        WHERE LOWER (O. OrderStatus) LIKE 'cancelled' OR
LOWER (O. OrderStatus) LIKE 'denied'
END
go
```

#### 8.3. OrderDetailsInsert

Sprawdza czy danie które próbujemy dodać do zamówienia jest zaznaczone jako dostępne.

```
CREATE TRIGGER OrderDetailsInsert
ON OrderDetails
FOR INSERT
AS
BEGIN
   SET NOCOUNT ON
   DECLARE @ProductID int
   DECLARE @OrderID int
   DECLARE @MenuID int
   DECLARE @ProductName nvarchar(200)
    SELECT @MenuID = MAX(MenuID) from Menu
   SELECT @ProductID = ProductID from inserted
    SELECT @OrderID = OrderID from inserted
    SET @ProductName = (SELECT Name FROM Products where Products.ProductID
= @ProductID)
   IF EXISTS (SELECT * FROM Products P WHERE P.ProductID = @ProductID AND
P.IsAvailable = 0)
        BEGIN;
            THROW 50001, 'Niepoprawne ProductID, Jego IsAvailable to 0 w
tabeli Products. ', 1
            ROLLBACK TRANSACTION
        END
   IF NOT EXISTS (SELECT * FROM CurrentMenu where Name like @ProductName)
        BEGIN
            THROW 50001, 'Ten produkt nieznajduje się aktualnie w menu.',
1
            ROLLBACK TRANSACTION
        END
END
```

Go

## 8.4. EmployeeInsert

Sprawdzanie, czy pracodawca dodanego pracownika jest firmą.

```
CREATE TRIGGER EmployeeInsert
ON Employees
FOR INSERT
AS
    BEGIN
        DECLARE @ClientID int
        SELECT @ClientID = CompanyID from inserted
        IF NOT EXISTS(SELECT * FROM Companies C where C.ClientID =
@ClientID)
            BEGIN;
                THROW 50001, N'Klient o podanym ID nie jest firmą. Nie
można dodać pracownika!', 1
                ROLLBACK TRANSACTION
            END
    END
GO
```

#### 8.5. addTableToReservationInsertCheck

Sprawdzanie, czy stolik można dodać do rezerwacji.

```
CREATE TRIGGER addTableToReservationInsertCheck
ON ReservationDetails
FOR INSERT
AS
   BEGIN
       DECLARE @ReservationID int = (SELECT ReservationID FROM inserted)
        DECLARE @TableID int = (SELECT TableID FROM inserted)
        DECLARE @StartReservationDate datetime
        DECLARE @EndReservationDate datetime
        SELECT @StartReservationDate = StartDate, @EndReservationDate =
EndDate FROM Reservation R WHERE R.ReservationID = @ReservationID
        DECLARE @TableInUseCountCompany int
        DECLARE @TableInUseCountIndividuals int
        SELECT @TableInUseCountCompany = COUNT(TableID) from Reservation R
            INNER JOIN ReservationCompany RC on R.ReservationID =
RC.ReservationID
            INNER JOIN ReservationDetails RD on RC.ReservationID =
RD.ReservationID
       WHERE (R.startDate >= @StartReservationDate AND R.endDate <=
@EndReservationDate)
        SELECT @TableInUseCountIndividuals = COUNT(TableID) from
```

```
Reservation R
            INNER JOIN ReservationIndividual RI on R.ReservationID =
RI.ReservationID
            INNER JOIN ReservationDetails RD on RI.ReservationID =
RD.ReservationID
        WHERE (R.startDate >= @StartReservationDate AND R.endDate <=
@EndReservationDate)
        IF @TableInUseCountIndividuals > 0 OR @TableInUseCountCompany > 0
            THROW 50200, N'Dany stolik jest używany przez inną rezerwację!
           ROLLBACK TRANSACTION;
        END
        IF EXISTS(SELECT * FROM Tables T WHERE T.TableID = @TableID AND
T.isActive = 0)
            BEGIN;
                THROW 50200, N'Stolik nie jest w użyciu (isActive jest
0)', 1
               ROLLBACK TRANSACTION;
           END
   END
GO
```

#### 8.6. TablesOnDelete

```
CREATE TRIGGER TablesOnDelete
ON ReservationDetails
FOR DELETE, UPDATE
AS
    BEGIN
        SET NOCOUNT ON
       DECLARE @TableInUseCountCompany int
        DECLARE @TableInUseCountIndividuals int
        SELECT @TableInUseCountCompany = COUNT(*) FROM deleted D
            INNER JOIN ReservationCompany RC ON RC.ReservationID =
D.ReservationID
            INNER JOIN Reservation R2 on RC.ReservationID =
R2.ReservationID
        WHERE R2.startDate >= GETDATE()
        SELECT @TableInUseCountIndividuals = COUNT(*) FROM deleted D
            INNER JOIN ReservationIndividual RC ON RC.ReservationID =
D.ReservationID
            INNER JOIN Reservation R2 on RC.ReservationID =
R2.ReservationID
       WHERE R2.startDate >= GETDATE()
        IF @TableInUseCountCompany > 0 OR @TableInUseCountIndividuals > 0
            THROW 52000, N'Stolik nie może zostać usunięty lub zmieniony
jego status aktywności jeśli jest zarezerwowany', 1
```

```
ROLLBACK TRANSACTION;
END
END
GO
```

#### 8.7. Z1TestForNewDiscountVariable

Sprawdzanie, czy dodana nowa zmienna zniżki Z1 jest prawidłowa.

```
CREATE TRIGGER Z1TestForNewDiscountVariable
ON DiscountsVar
FOR INSERT ,UPDATE
AS
BEGIN
SET NOCOUNT ON
IF EXISTS(
SELECT * FROM inserted AS I
WHERE I.MinimalOrders<=0
)
BEGIN
THROW 52000, N'Nowa zniżka powinna miec dodatni parametr
MinimalOrders', 1
END
END
GO
```

### 8.8. NewMenulsCorrect

```
CREATE TRIGGER NewMenuIsCorrect
ON MenuDetails
FOR INSERT
AS
    BEGIN
        DECLARE @MenuID int = (SELECT MenuID FROM inserted)
        DECLARE @PreviousCorrect int = (SELECT Field value FROM
dbo.MenuIsCorrect(@MenuID) WHERE LOWER(Field) LIKE 'previous')
        DECLARE @FollowingCorrect int = (SELECT Field value FROM
dbo.MenuIsCorrect(@MenuID) WHERE LOWER(Field) LIKE 'following')
        IF(@PreviousCorrect = 0)
            BEGIN
                DECLARE @PreviousMenuItemsCount int
                SET @PreviousMenuItemsCount = (SELECT count(*) FROM
ShowDuplicatesPreviousMenu (@MenuID))
                IF @PreviousMenuItemsCount > 0
                    BEGIN
                        SELECT ProductID, Name, Description FROM
ShowDuplicatesPreviousMenu (@MenuID) ORDER BY ProductID;
                    END;
```

```
THROW 50001, N'Zmieniono za małą liczbę dań w aktualnym
menu względem wcześniejszego menu!',1
                ROLLBACK TRANSACTION
            END
        IF(@FollowingCorrect = 0)
            BEGIN
                DECLARE @FollowingMenuItemsCount int
                SET @FollowingMenuItemsCount = (SELECT count(*) FROM
ShowDuplicatesFollowingMenu(@MenuID))
                IF @FollowingMenuItemsCount > 0
                    BEGIN
                        SELECT ProductID, Name, Description FROM
ShowDuplicatesFollowingMenu(@MenuID) ORDER BY ProductID;
                    END;
                THROW 50001, N'Zmieniono za małą liczbę dań w aktualnym
menu względem przyszłego menu!',1
                ROLLBACK TRANSACTION
            END
    END
go
```

#### 8.9. CanReservation

```
CREATE TRIGGER CanReservation
   ON Orders
   AFTER UPDATE
AS
   SET NOCOUNT ON
    BEGIN
        DECLARE @LastOrderID int = (SELECT OrderID FROM inserted );
        DECLARE @ClientID int = (SELECT ClientID FROM inserted )
        DECLARE @ReservationID int;
        SELECT @ReservationID = R2.ReservationID FROM Orders
            INNER JOIN Reservation R2 on Orders.ReservationID =
R2.ReservationID
       WHERE OrderID = @LastOrderID
       IF @ReservationID IS NOT NULL
        BEGIN;
            DECLARE @MinimalOrders int
            DECLARE @MinimalValue money
            DECLARE @CategoryID int
            SELECT @CategoryID = CategoryID FROM Category WHERE
LOWER (CategoryName) LIKE 'sea food'
            SELECT @MinimalOrders = [Minimal number of orders],
@MinimalValue = [Minimal value for orders] FROM CurrentReservationVars
```

```
IF EXISTS (
                SELECT * FROM Orders AS O
                    INNER JOIN dbo.OrderDetails OD ON O.OrderID =
OD.OrderID
                    INNER JOIN Products P ON OD.ProductID = P.ProductID
                    INNER JOIN Reservation R2 ON O.ReservationID =
R2.ReservationID
                WHERE
                        DATENAME (WEEKDAY, R2.startDate) LIKE 'Thursday'
                        AND DATEDIFF(DAY, O.OrderDate, R2.startDate) <= 2
                        AND CategoryID = @CategoryID AND O.ClientID =
@ClientID AND O.OrderID = @LastOrderID
                    OR
                    (
                        DATENAME (WEEKDAY, R2.startDate) LIKE 'Friday'
                        AND DATEDIFF(DAY, O.OrderDate, R2.startDate) <= 3
                        AND CategoryID = @CategoryID AND O.ClientID =
@ClientID AND O.OrderID = @LastOrderID
                    )
                    OR
                    (
                        DATENAME (WEEKDAY, R2.startDate) LIKE 'Saturday'
                        AND DATEDIFF(DAY, O.OrderDate, R2.startDate) <= 4
                        AND CategoryID = @CategoryID AND O.ClientID =
@ClientID AND O.OrderID = @LastOrderID
                    )
            )
                BEGIN
                    THROW 52000, N'Należy odrzucić dane zamówienie i
rezerwację! Klient nie może zamówić w tym dniu owoców morza!', 1
            IF NOT EXISTS (SELECT * FROM
dbo.GetClientsOrderedMoreThanXTimes(@MinimalOrders) WHERE ClientID =
@ClientID)
                BEGIN
                    DECLARE @msq1 nvarchar(2048) = N'Należy odrzucić dane
zamówienie i rezerwację! Klient nie spełnia minimalnej liczby zamówień
wynoszacej: ' + CAST(@MinimalOrders AS nvarchar);
                    THROW 52000, @msg1, 1
                    ROLLBACK TRANSACTION
                END
            IF (SELECT OrderSum FROM inserted WHERE OrderID = @LastOrderID
AND ClientID = @ClientID ) <= @MinimalValue
                BEGIN
                    DECLARE @msq2 nvarchar(2048) = N'Należy odrzucić dane
zamówienie i rezerwację! Klient nie spełnia minimalnej wartości zamówienia
wynoszącej: ' + CAST(@MinimalValue AS nvarchar);
                    THROW 52000, @msq2, 1
                    ROLLBACK TRANSACTION
                END
        END
    END
go
```

## 8.10. unique Values In Companies

```
CREATE TRIGGER uniqueValuesInCompanies
ON Companies
FOR INSERT, UPDATE
AS
    BEGIN
        SET NOCOUNT ON
        IF EXISTS (SELECT * FROM inserted I WHERE I.CompanyName IN (SELECT
CompanyName FROM Companies WHERE ClientID <> I.ClientID))
            THROW 52000, N'Nazwa firmy musi być unikalna!', 1
        END
        DECLARE @KRS varchar = (SELECT KRS FROM inserted)
        IF @KRS IS NOT NULL AND EXISTS (SELECT * FROM inserted I WHERE
I.KRS IN (SELECT KRS FROM Companies WHERE ClientID <> I.ClientID))
        BEGIN
            THROW 52000, N'KRS musi być unikalny!', 1
        END
        DECLARE @Regon varchar = (SELECT Regon FROM inserted)
        IF @Regon IS NOT NULL AND EXISTS (SELECT * FROM inserted I WHERE
I.Regon IN (SELECT Regon FROM Companies WHERE ClientID <> I.ClientID))
        BEGIN
            THROW 52000, N'Regon musi być unikalny!', 1
        END
    END
GO
```

#### 8.11. UpdateUserDiscounts

```
CREATE TRIGGER UpdateUserDiscounts
ON OrderDetails
AFTER INSERT
AS
    BEGIN
        SET NOCOUNT ON
        DECLARE @ClientID INT
        DECLARE @MinimalOrders INT
        DECLARE @MinimalAggregateValueTemporary MONEY
        DECLARE @MinimalAggregateValuePermanent MONEY
        SET @ClientID = (SELECT O.ClientID FROM inserted INNER JOIN Orders
O ON O.OrderID = inserted.OrderID)
        SELECT @MinimalAggregateValueTemporary = MinimalAggregateValue
FROM DiscountsVar WHERE LOWER (DiscountType) LIKE 'temporary' AND
(startDate <= GETDATE() AND (endDate IS NULL OR endDate >= GETDATE()))
        SELECT @MinimalAggregateValuePermanent=MinimalAggregateValue,
@MinimalOrders = MinimalOrders FROM DiscountsVar WHERE LOWER(DiscountType)
LIKE 'permanent' AND (startDate <= GETDATE() AND (endDate IS NULL OR
endDate >= GETDATE()))
```

```
DECLARE @ClientCountOrders int
        SET @ClientCountOrders = (SELECT COUNT(*) FROM
OrdersMoreExpensiveThanN(@MinimalAggregateValuePermanent) WHERE ClientID =
@ClientID)
        IF @ClientCountOrders >= @MinimalOrders
            BEGIN
                  Add permanent discount
                EXEC addDiscount @ClientID, 'Permanent'
            END
        IF EXISTS (SELECT * FROM
GetClientsOrderedMoreThanXValue(@MinimalAggregateValueTemporary) WHERE
ClientID = @ClientID)
           BEGIN
                    Add Temporary discount
                IF NOT EXISTS (
                            SELECT * FROM Discounts
                                INNER JOIN DiscountsVar DV on DV.VarID =
Discounts.VarID
                            WHERE ClientID = @ClientID AND
LOWER (DiscountType) LIKE 'temporary' AND DATEADD (DAY, ValidityPeriod,
AppliedDate) >= GETDATE() AND isUsed = 0
                BEGIN
                    EXEC addDiscount @ClientID, 'Temporary'
                END
            END
    END
go
```

# 9.Indeksy

## 9.1. Index ClientID

```
CREATE INDEX Index_ClientID
on Clients (ClientID)
```

## 9.2. Index Clients Phone

```
CREATE INDEX Index_Clients_Phone
on Clients (Phone)
```

# 9.3. Index\_Clients\_Email

```
CREATE INDEX Index_Clients_Email
on Clients (Email)
```

# 9.4. Index\_Staff\_Email

```
CREATE INDEX Index_Staff_Email
on Staff (Email)
```

# 9.5. Index Staff Phone

```
CREATE INDEX Index_Staff_Phone
on Staff (Phone)
```

# 9.6. Index\_PersonID

```
CREATE INDEX Index_PersonID
on Person (PersonID)
```

## 9.7. Index\_PaymentName

```
CREATE INDEX Index_PaymentName
on PaymentMethods (PaymentName)
```

# 9.8. Index\_PaymentStatusID

```
CREATE INDEX Index_PaymentStatusID

on PaymentStatus (PaymentStatusID)
```

# 9.9. Index\_InvoiceID

```
CREATE INDEX Index_InvoiceID
on Invoice (InvoiceID)
```

## 9.10. Index InvoiceNumber

```
CREATE INDEX Index_InvoiceNumber
on Invoice (InvoiceNumber)
```

## 9.11. Index MenuID

```
CREATE INDEX Index_MenuID

on Menu (MenuID)
```

## 9.12. Index Price

```
CREATE INDEX Index_Price
on MenuDetails (Price)
```

# 9.13. Index\_CategoryID

```
CREATE INDEX Index_CategoryID

on Category (CategoryID)
```

## 9.14. Index\_ProductID

```
CREATE INDEX Index_ProductID
on Products (ProductID)
```

## 9.15. Index\_Name

```
CREATE INDEX Index_Name
on Products (Name)
```

# 9.16. Index DiscountID

```
CREATE INDEX Index_DiscountID
on Discounts (DiscountID)
```

# 9.17. Index\_ReservationID

```
CREATE INDEX Index_ReservationID

on Reservation (ReservationID)
```

## 9.18. Index TableID

```
CREATE INDEX Index_TableID
on Tables (TableID)
```

# 9.19. Index\_AddressID

```
CREATE INDEX Index_AddressID
on Address (AddressID)
```

# 9.20. Index\_CityID

```
CREATE INDEX Index_CityID
on Cities (CityID)
```

# 9.21. Index\_DiscountsVar\_Information

CREATE INDEX Index\_DiscountsVar\_Information
on DiscountsVar (discounttype, minimalorders, minimalaggregatevalue, validityperiod, discountvalue, startdate, enddate)

### 10. Role

### 10.1 Manager restauracji

- dodawanie stolików,
- wycofywanie stolików,
- dodawanie potraw,
- wycofywanie potraw

dodawanie menu

- usuwanie potraw
- dodawanie produktów do menu
- usuwanie produktów z menu
- wgląd do faktur
- dodawanie nowych zmiennych dotyczących zniżek
- dodawanie zniżki dla klienta
- sprawdzanie i generowanie raportów
- usuwanie adresu
- usuwanie miasta
- dodawanie kategorii
- usuwanie kategorii
- usuwanie pracownika z firmy
- dodawanie metod płatności
- usuwanie metod płatności
- dodawanie statusu płatności
- usuwanie statusu płatności
- zmiana pracownika odpowiedzialnego za zamówienie
- zmiana pracownika odpowiedzialnego za rezerwację
- sprawdzanie duplikatów w poprzednim i/lub przyszłym menu
- sprawdzanie zarobków w danym roku danego miesiąca
- sprawdzanie minimalnej, średniej i maksymalnej ceny menu
- sprawdzanie najlepiej sprzedającego się dania

## 10.2 Pracownik restauracji

- dodawanie klientów,
- dodawanie zamówień,
- dodawanie produktu do zamówienia
- zmiana statusu rezerwacji
- dodawanie rezerwacji
- usuwanie rezerwacji
- dodawanie stolika do rezerwacji
- usuwanie stolika z rezerwacji
- dodawanie rezerwacji do zamówienia
- zmiana statusu zamówienia i rezerwacji
- potwierdzanie i anulowanie zamówień
- dodawanie nowego adresu
- dodawanie nowego miasta
- dodawanie klienta
- dodawanie pracownika do firmy
- tworzenie faktur do zamówienia

System zarządzania restauracją.

• sprawdzanie zajętych i/lub wolnych stolików w danym okresie czasu i z daną liczbą miejsc

# 10.3 Klient

- składanie zamówień,
- dokonywanie rezerwacji,
- anulowanie rezerwacji