**Database Management Systems Project**

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* 1. **Introduction of the problem**

We have a restaurant. We want to make our restaurant more trackable, so we want to control our orders, kitchens, checkouts with a software.

In today’s standards and needs requires online environment adaptation and internet integrity for this business to survive and grow.

As the business and system grows, other requirements occur, such as data analysis, data security, data management etc.

To provide these requirements, having the benefits of a database management system becomes a must and standard.

With the assistance of a database management system some problems such as data integrity, maintenance, data traceability etc. are solved.

* 1. **Business rules**

Kitchen

* + Each kitchen has sectionID, and orderID. Kitchens are distinguished from each other by their sectionID.
  + Each kitchen has at least zero order or could be many orders and each order comes from only one kitchen.

Tables

* + Each table has sectionID, waiterID, orderID. Tables are distinguished from each other by their sectionID.
  + Each table has only one waiter and a waiter can be interested one or many tables.
  + Each table has only one order and an order belongs to only one table.

Checkout

* + Each checkout has sectionID, CashierID, OrderID. Checkouts are distinguished from each other by their sectionID.
  + Each checkout has only one cashier and each cashier is just responsible for one checkout.

Staff

* + In the system, a staff can exist in some categories: a cashier, a waiter, a courier. A staff can't be just itself.
  + Each staff has staffID, staffType, name, surname, phone number. Staffs are distinguished from each other by their staffID.
  + Each staff has at least one order or many order and each order only belongs to one staff.
  + A staff can't be another staff at the same time.

Cashier

* + Each cashier has staffID. Cashiers are distinguished from each other by their staffID.

Waiter

* + Each waiter has staffID. Waiters are distinguished from each other by their staffID.
  + Each waiter can be attending to one table or many table. Each table has only one waiter.

Courier

* + Each courier has staffID. Couriers are distinguished from each other by their staffID.

Order

* + Each order has orderID, foodID, beverageID, address, totalPrice, staffID. Orders are distinguished from each other by their orderID.
  + Each order includes zero or many foods and each food could be in zero or many order.
  + Each order includes zero or many beverages and each beverage could be in zero or many order.

Foods

* Each foods has foodId, foodName, foodPrice, orderId. Foods are distinguished from each other by their foodId.

Beverages

* Each beverages has beverageId, beverageName, beveragePrice, orderId. Beverages are distinguished from each other by their beverageId.

Foodlist

* Food List contains Food Id, Food Price and Food Name. Foods are distinguished from each other by their Food Id.

Beveragelist

* Beverage List contains Beverage Id, Beverage Price and Beverage Name. Beverages are distinguished from each other by their Beverage Id.

DeletedOrders

* DeletedOrders contains deletedDate, deletedOrdersId, orderAddress, orderId, staffId, tableId.

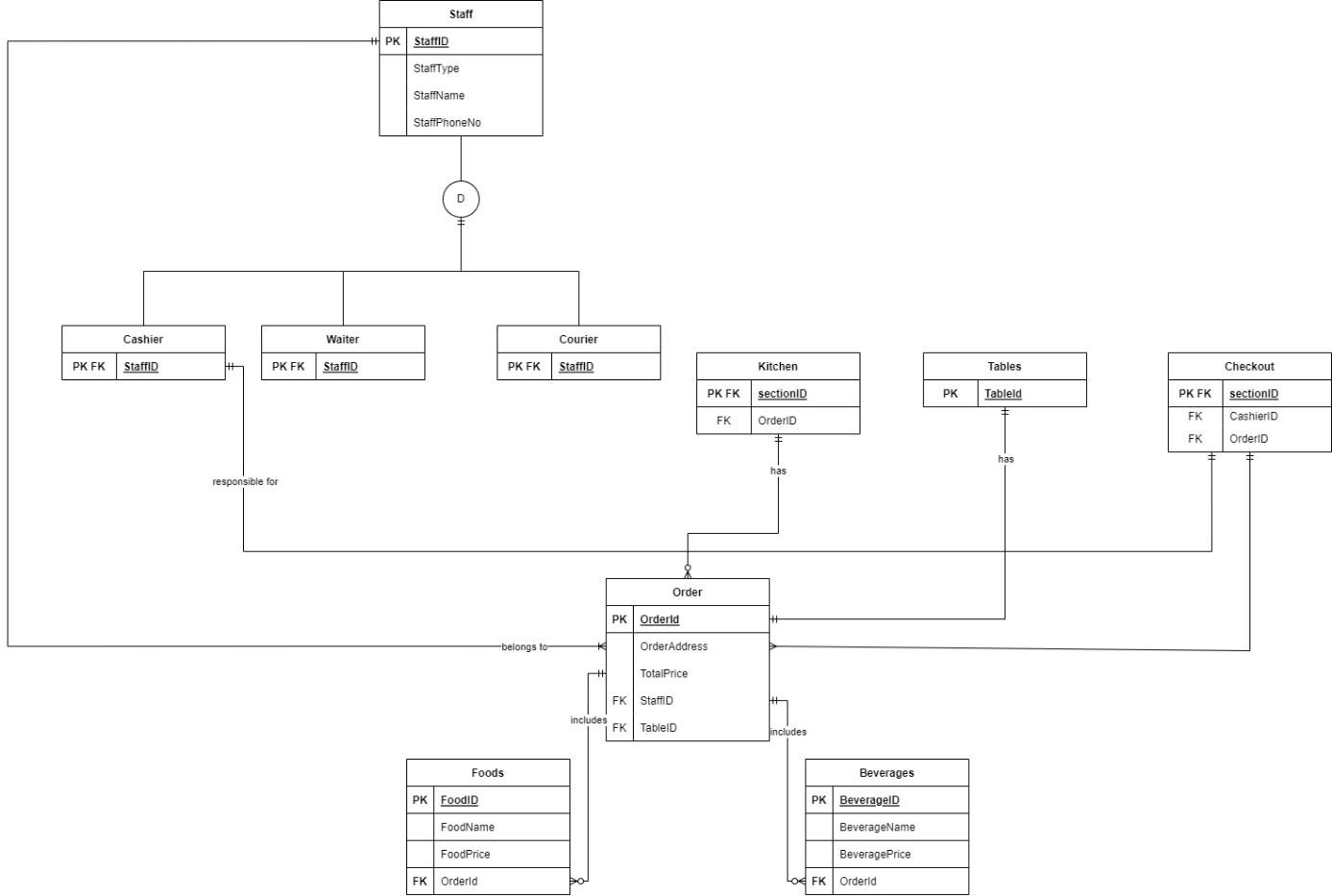
Beveragelistpricechanges

* Beveragelistpricechanges contains beveragelistrecordno, beverageid, newbeverageprice, oldbeverageprice, updatedate.

Foodlistpricechanges

* Foodlistpricechanges contains foodlistrecordno, foodid, newfoodprice, oldfoodprice, updatedate.

* 1. **Entity Relationship model (Crow’s Foot, Inheritance)**



* 1. **Relational model (textual representation)**
* Kitchen(SectionID:int, OrderID:int)
* Tables(SectionID:int, WaiterID:int, OrderID:int)
* Checkout(SectionID:int, CashierID:int, OrderID:int)
* Order(OrderID:int, OrderAddress:varchar, TotalPrice:real, StaffID:int)
* Staff(StaffID:int, StaffType:varchar, StaffName:varchar, StaffPhoneNo:char(11))
* Cashier(StaffID:int)
* Waiter(StaffID:int)
* Courier(StaffID:int)
* Foods(FoodID:int, FoodName:varchar, FoodPrice:real, OrderId:int)
* Beverages(BeverageID:int, BeverageName:varchar, BeveragePrice:real, OrderId:int)
* FoodList(FoodId:int, FoodName:varchar, FoodPrice:real)
* BeverageList(BeverageId:int ,BeverageName:varchar, BeveragePrice:real)
* Beveragelistpricechanges(Beveragelistrecordno:int, BeverageId:smallint, Newbeverageprice:real, Oldbeverageprice:real, updatedate:timestamp)
* Foodlistpricechanges(Foodlistrecordno:int, FoodId:smallint, Newfoodprice:real, Oldfoodprice:real, updatedate:timestamp)
* DeletedOrders(DeletedOrdersId:int, OrderId:int, StaffId:int, TableId:int, OrderAddress:Character Varying, DeletedDate:Timestamp)
  1. **SQL Statements**

CREATE TABLE "section"(

"sectionid" SERIAL not NULL,

"sectiontype" CHARACTER VARYING(50) not NULL,

CONSTRAINT "sectionpk" PRIMARY key ("sectionid")

);

CREATE table "staff"(

"staffid" SERIAL not NULL,

"stafftype" CHARACTER VARYING(50) not null,

CONSTRAINT "staffpk" PRIMARY KEY ("staffid")

);

CREATE table "cashier"(

"staffid" INT,

CONSTRAINT "cashierpk" PRIMARY key ("staffid"),

CONSTRAINT "cashierfk" FOREIGN KEY ("staffid") REFERENCES "staff" ("staffid") on DELETE CASCADE on UPDATE cascade

);

CREATE table "waiter"(

"staffid" INT,

"waitername" CHARACTER VARYING(100),

"waiterphoneno" CHARACTER VARYING(20),

CONSTRAINT "waiterpk" PRIMARY key ("staffid"),

CONSTRAINT "waiterfk" FOREIGN KEY ("staffid") REFERENCES "staff" ("staffid") on DELETE CASCADE on UPDATE cascade

);

CREATE table "courier"(

"staffid" INT,

"couriername" CHARACTER VARYING(100),

"courierphoneno" CHARACTER VARYING(20),

CONSTRAINT "courierpk" PRIMARY key ("staffid"),

CONSTRAINT "courierfk" FOREIGN KEY ("staffid") REFERENCES "staff" ("staffid") on DELETE CASCADE on UPDATE cascade

);

CREATE table "order"(

"orderid" SERIAL,

"orderaddress" CHARACTER VARYING(300),

"totalprice" REAL,

"staffid" INT,

CONSTRAINT "orderpk" PRIMARY KEY ("orderid"),

CONSTRAINT "orderfk" FOREIGN key ("staffid") REFERENCES "staff" ("staffid")

CONSTRAINT "tablefk" FOREIGN key ("tableid") REFERENCES "tables" ("tableid") on DELETE CASCADE on UPDATE CASCADE

);

CREATE table "kitchen"(

"sectionid" INT,

"orderid" INT,

CONSTRAINT "kitchenpk" PRIMARY KEY("sectionid"),

CONSTRAINT "kitchenfk" FOREIGN KEY("sectionid") REFERENCES "section" ("sectionid") on DELETE CASCADE on UPDATE cascade,

CONSTRAINT "kitchenfk2" FOREIGN KEY("orderid") REFERENCES "order" ("orderid")

);

CREATE table "tables"(

"tableis" INT,

CONSTRAINT "tablespk" PRIMARY key ("tableid")

);

CREATE table "checkout"(

"sectionid" INT,

"cashierid" INT,

"orderid" INT,

CONSTRAINT "checkoutpk" PRIMARY KEY ("sectionid"),

CONSTRAINT "checkoutfk" FOREIGN key ("sectionid") REFERENCES "section" ("sectionid") on DELETE CASCADE on UPDATE cascade,

CONSTRAINT "checkoutfk2" FOREIGN key ("cashierid") REFERENCES "cashier" ("staffid"),

CONSTRAINT "checkoutfk3" FOREIGN key ("orderid") REFERENCES "order" ("orderid")

);

CREATE TABLE "foods"(

"foodid" SERIAL,

"foodname" CHARACTER VARYING(100),

CONSTRAINT "foodspk" PRIMARY key ("foodid")

CONSTRAINT "foodsfk" FOREIGN key ("orderid") REFERENCES "order" ("orderid") on DELETE CASCADE on UPDATE cascade;

);

CREATE TABLE "beverages"(

"beverageid" SERIAL,

"orderid" INT,

"beveragename" CHARACTER VARYING(100),

CONSTRAINT "beveragespk" PRIMARY key ("beverageid")

CONSTRAINT "beveragesfk" FOREIGN key ("orderid") REFERENCES "order" ("orderid") on DELETE CASCADE on UPDATE cascade

);

CREATE TABLE "foodlist"(

"foodid" SERIAL,

"foodname" INT,

"foodprice" REAL,

CONSTRAINT "foodlistpk" PRIMARY key ("foodid")

);

CREATE TABLE "beveragelist"(

"beverageid" SERIAL,

"beveragename" INT,

"beverageprice" REAL,

CONSTRAINT "beveragelistpk" PRIMARY key ("beverageid")

);

**Triggers**

CREATE TABLE "public"."foodlistpricechanges" (

"foodlistrecordno" serial,

"foodid" SmallInt NOT NULL,

"oldfoodprice" Real NOT NULL,

"newfoodprice" Real NOT NULL,

"updatedate" TIMESTAMP NOT NULL,

CONSTRAINT "PK" PRIMARY KEY ("foodlistrecordno")

);

CREATE OR REPLACE FUNCTION "foodlistpricechanges"()

RETURNS TRIGGER

AS

$$

BEGIN

IF NEW."foodprice" <> OLD."foodprice" THEN

INSERT INTO "foodlistpricechanges"("foodid", "oldfoodprice", "newfoodprice", "updatedate")

VALUES(OLD."foodid", OLD."foodprice" , NEW."foodprice", CURRENT\_TIMESTAMP::TIMESTAMP);

END IF;

RETURN NEW;

END;

$$

LANGUAGE "plpgsql";

CREATE TRIGGER "foodlistpricechangestrigger"

BEFORE UPDATE ON "foodlist"

FOR EACH ROW

EXECUTE PROCEDURE "foodlistpricechanges"();

CREATE TABLE "public"."beveragelistpricechanges" (

"beveragelistrecordno" serial,

"beverageid" SmallInt NOT NULL,

"oldbeverageprice" Real NOT NULL,

"newbeverageprice" Real NOT NULL,

"updatedate" TIMESTAMP NOT NULL,

CONSTRAINT "beveragelistpricechangespk" PRIMARY KEY ("beveragelistrecordno")

);

CREATE OR REPLACE FUNCTION "beveragelistpricechanges"()

RETURNS TRIGGER

AS

$$

BEGIN

IF NEW."beverageprice" <> OLD."beverageprice" THEN

INSERT INTO "beveragelistpricechanges"("beverageid", "oldbeverageprice", "newbeverageprice", "updatedate")

VALUES(OLD."beverageid", OLD."beverageprice" , NEW."beverageprice", CURRENT\_TIMESTAMP::TIMESTAMP);

END IF;

RETURN NEW;

END;

$$

LANGUAGE "plpgsql";

CREATE TRIGGER "beveragelistpricechangestrigger"

BEFORE UPDATE ON "beveragelist"

FOR EACH ROW

EXECUTE PROCEDURE "beveragelistpricechanges"();

CREATE TABLE "public"."deletedOrders" (

"deletedOrdersId" serial,

"orderId" int NOT NULL,

"staffId" int NOT NULL,

"tableId" Real NOT NULL,

"orderAddress" CHARACTER VARYING not null,

"deletedDate" TIMESTAMP NOT NULL,

CONSTRAINT "deletedOrdersPk" PRIMARY KEY ("deletedOrdersId")

);

CREATE OR REPLACE FUNCTION "deletedOrdersFunc"()

RETURNS TRIGGER

AS

$$

BEGIN

INSERT INTO "deletedOrders"("orderId", "staffId", "tableId", "orderAddress", "deletedDate")

VALUES(OLD."orderid", OLD."staffid", OLD."tableid", OLD."orderaddress", CURRENT\_TIMESTAMP::TIMESTAMP);

RETURN OLD;

END;

$$

LANGUAGE "plpgsql";

CREATE TRIGGER "deletedOrdersTrigger"

BEFORE DELETE ON "order"

FOR EACH ROW

EXECUTE PROCEDURE "deletedOrdersFunc"();

**Functions**

CREATE OR REPLACE FUNCTION searchOrder(ordernumber INT)

RETURNS TABLE(orderno INT, staffno int, tableno int, addres CHARACTER VARYING, price REAL)

LANGUAGE plpgsql

AS

$$

BEGIN

RETURN QUERY SELECT "orderid","staffid", "tableid", "orderaddress", "totalprice" FROM "order" WHERE "orderid" = ordernumber;

END;

$$

SELECT \* FROM searchOrder(111);

CREATE or REPLACE FUNCTION calcTax(normalPrice real, out taxPrice real)

AS

$$

BEGIN

taxPrice := 0.18\* normalPrice;

END;

$$

LANGUAGE plpgsql;

SELECT \* FROM calcTax(100);

CREATE OR REPLACE FUNCTION totalPrice()

RETURNS TABLE (number real)

AS

$$ -- Begining of function body

BEGIN

RETURN QUERY SELECT SUM("totalprice") FROM "order";

END;

$$ -- Ending of function body

LANGUAGE plpgsql;

SELECT \* from totalPrice();

CREATE OR REPLACE FUNCTION avgPrice()

RETURNS TABLE (number FLOAT)

AS

$$ -- Begining of function body

BEGIN

RETURN QUERY SELECT AVG("totalprice") FROM "order";

END;

$$ -- Ending of function body

LANGUAGE plpgsql;

SELECT \* from avgPrice();

CREATE OR REPLACE FUNCTION "trimAddress"()

RETURNS TRIGGER

AS

$$

BEGIN

NEW."orderaddress" = LTRIM(NEW."orderaddress"); -- Clear previous and next spaces

RETURN NEW;

END;

$$

LANGUAGE "plpgsql";

CREATE TRIGGER "trimSpaceTrigger"

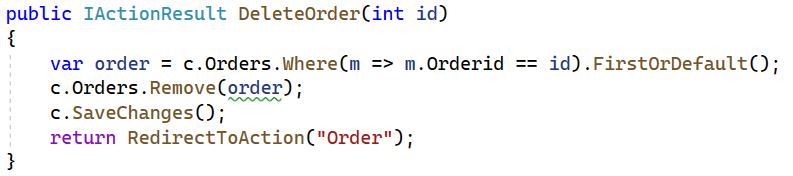
BEFORE INSERT ON "order" --The before statement allows data to be acted upon before inserting it

FOR EACH ROW

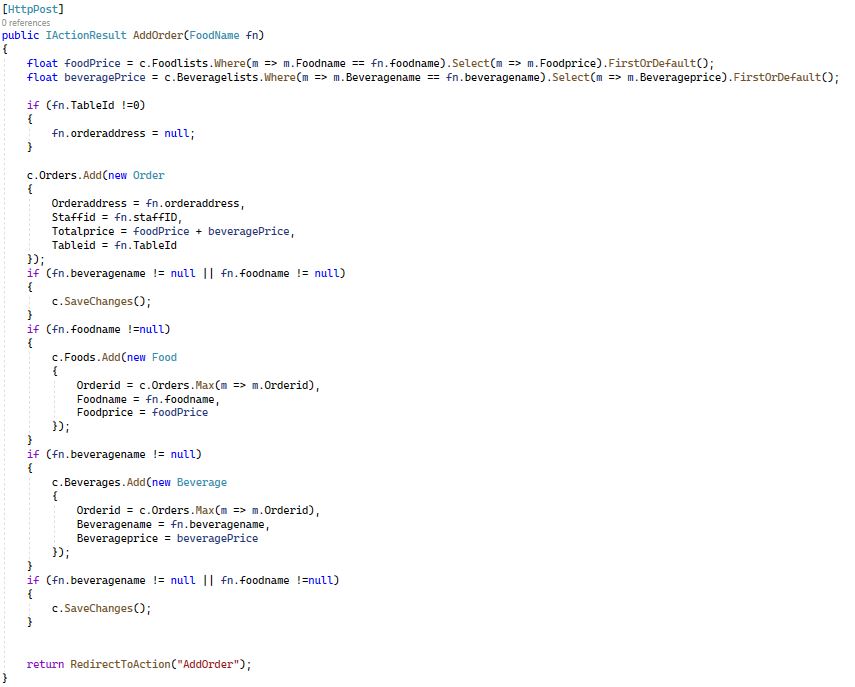
EXECUTE PROCEDURE "trimAddress"();

**Search, Update, Delete and Add Operations’ Screenshots**

![metin içeren bir resim

Açıklama otomatik olarak oluşturuldu](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEJ1cmFrAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM2NgAAkpIAAgAAAAM2NgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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içeren bir resim

Açıklama otomatik olarak oluşturuldu](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEJ1cmFrAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM0OQAAkpIAAgAAAAM0OQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* 1. 
  2. 