

# Apex Triggers

## Apex trigger With Handler

```
public class FoodOptionTriggerHandler {

    // Method to update hotel information based on food options

    public static void updateHotelInformation(List<Food__Option__c>
newFoodOptions, List<Food__Option__c> oldFoodOptions,
TriggerOperation operation) {

        Set<Id> hotelIdsToUpdate = new Set<Id>();

        // Collect unique Hotel Ids affected by food options changes

        for (Food__Option__c foodOption : newFoodOptions) {

            hotelIdsToUpdate.add(foodOption.Hotel__c);

        }

        // Update hotel information based on food options

        List<Hotel__c> hotelsToUpdate = [SELECT Id, Name, TotalFoodOptions__c FROM Hotel__c
WHERE Id IN :hotelIdsToUpdate];

        for (Hotel__c hotel : hotelsToUpdate) {

            // Recalculate total food options count

            Integer totalFoodOptions = [SELECT COUNT() FROM Food__Option__c WHERE Hotel__c =
:hotel.Id];

            hotel.TotalFoodOptions__c = totalFoodOptions;

        }

        // Update hotels with new total food options count
```

```

update hotelsToUpdate;

}

}

```

## Trigger

```

trigger FoodOptionTrigger on Food__Option__c (after insert, after update, after delete) {

    If(trigger.isInsert && trigger.isAfter){

        FoodOptionTriggerHandler.updateHotelInformation(trigger.new);

    }

}

```

## Apex Schedule Class Solution

```

public class FlightReminderScheduledJob implements Schedulable {

    public void execute(SchedulableContext sc) {

        sendFlightReminders();

    }

    private void sendFlightReminders() {

        // Query for flights departing within the next 24 hours

        List<Flight__c> upcomingFlights = [SELECT Id, Name, DepartureDateTime__c FROM
Flight__c

WHERE DepartureDateTime__c >= :DateTime.now()

AND DepartureDateTime__c <= :DateTime.now().addDays(1)];

```

```

for (Flight__c flight : upcomingFlights) {

    // Customize the logic to send reminder emails

    // For this example, we'll print a log message; replace this with your email sending logic.

    System.debug('Sending reminder email for Flight ' + flight.Name + ' to ' +
flight.ContactEmail__c);

    // Example: Send email using Messaging.SingleEmailMessage

    Messaging.SingleEmailMessage email = new Messaging.SingleEmailMessage();

    email.setToAddresses(new List<String>{ flight.ContactEmail__c });

    email.setSubject('Flight Reminder: ' + flight.Name);

    email.setPlainTextBody('This is a reminder for your upcoming flight ' + flight.Name +
        ' departing on ' + flight.DepartureDateTime__c);

    Messaging.sendEmail(new List<Messaging.SingleEmailMessage>{ email });

}

}

}

```

## Apex Code

```

// Schedule the job to run every day at a specific time (e.g., 6 AM)

String cronExp = '0 0 6 * * ?';

System.schedule('FlightReminderJob', cronExp, new FlightReminderScheduledJob());

```