```
1.1
SELECT L.id, L.description
FROM Listings L, Calendar C, Reviews R
where L.id = R.listing_id
        and L.id = C.listing_id
         and R.listing_id = C.listing_id
        and C.available = 1
         and C.date = '1/1/2017'
         and L.review_scores_value >= 3.5
        and R.comments LIKE '%welcom%'
GROUP BY L.id, L.description
HAVING count(*) > 5
1.2
SELECT Table1.listing_id, count(Table1.listing_id)
FROM Listings L, (SELECT*
                              FROM Bookings B
                             WHERE B.stay_from between '1/1/2016' and '1/1/2017' AND
                                    B.stay_to between '1/1/2016' and '1/1/2017') AS
Table1
WHERE L.id = Table1.listing_id
GROUP BY listing_id
HAVING COUNT(*) >= 10
ORDER BY COUNT(Table1.listing_id) DESC
1.3
SELECT Table2.date
FROM(SELECT C.date, MAX(B.number_of_guests) as max1
        FROM Calendar C, Bookings B
        GROUP BY C.date) AS Table2
```

```
2.1
CREATE TRIGGER booking
ON Bookings
AFTER INSERT
AS
IF(SELECT COUNT(*)
   FROM inserted
   WHERE inserted.id > 0) = 1
BEGIN
UPDATE Calendar
SET available = 0
WHERE listing_id = (SELECT listing_id
                                FROM inserted)
                                   AND date between (SELECT stay_from
                                                                 FROM inserted)
                                                          AND (SELECT stay_to
                                                                  FROM inserted)
END
2.2
ALTER TABLE Reviews
ADD guest_name varchar(100)
CREATE TRIGGER Rev
ON Bookings
AFTER INSERT
IF(SELECT COUNT(*)
   FROM inserted
  WHERE inserted.id > 0) = 1
BEGIN
  UPDATE Reviews
   SET guest_name = (SELECT guest_name
                     FROM inserted)
   WHERE( SELECT listing_id from inserted) = listing_id
END
2.3
--For this question, I recived help from a classmate explaing conver(date,GETDATE())
CREATE TRIGGER checks
ON Reviews
AFTER INSERT
IF NOT EXISTS(SELECT B.guest_name
                             FROM Bookings B
                             WHERE B.guest name = (SELECT guest name
                                                                  FROM inserted) AND
                                                                 (SELECT
convert(date,GETDATE())) >= B.stay_to)
BEGIN
ROLLBACK TRANSACTION
END
```