**1)**

SELECT A.DURATION

FROM TRIPS A

JOIN (SELECT b.date

,ZIP

FROM weather

WHERE EVENTS = 'Rain') B

ON A.ZIP\_CODE = B.ZIP

AND A.DATE = B.DATE

ORDER BY DURATION DESC

;

**2)**

SELECT A.NAME

,B.STATION\_ID

,COUNT(B.TIMESTAMP) EMPTY\_TIMES

FROM STATIONS A

JOIN STATUS B

WHERE B.BIKES\_AVAILABLE = 0

GROUP BY A.NAME

,B.STATION\_ID

order BY EMPTY\_TIMES desc;

**3)**

SELECT

A.START\_STATION,

B.DOCKCOUNT,

COUNT(\*)

FROM trips A

JOIN stations B

on A.start\_station=B.name

GROUP BY A.START\_STATION,

B.DOCKCOUNT

order by B.DOCKCOUNT DESC

**4)**

with rainy as

(SELECT

date as dt

From weather

WHERE events = 'Rain'

GROUP BY dt

),

rain\_trips as (

SELECT

a.trip\_id,

a.duration,

DATE(a.start\_date) trip\_date

FROM trips a

JOIN rainy b

on b.dt = trip\_date

ORDER BY duration DESC

)

SELECT trip\_date,

,max(duration)

from rain\_trips

GROUP BY trip\_date

***QUESTION: WHY DOESN’T THE BELOW WORK?***

rain\_trips as (

SELECT

a.trip\_id,

a.duration,

DATE(a.start\_date) trip\_date

FROM trips a

JOIN (SELECT

date as dt

From weather

WHERE events = 'Rain'

GROUP BY dt

) b

on b.dt = trip\_date

ORDER BY duration DESC

),

SELECT trip\_date,

,max(duration)

from rain\_trips

GROUP BY trip\_date