Capstone queries :

WITH TEM AS (

select count(\*) CNT,pickup\_latitude,pickup\_longitude from lpep2015\_triprecord\_vts

group by pickup\_latitude,pickup\_longitude)

SELECT MAX(CNT) FROM TEM WHERE CNT IS NOT NULL

select count(\*) CNT,pickup\_longitude,pickup\_latitude from lpep2015\_triprecord\_vts

where pickup\_longitude IS NOT NULL

group by pickup\_longitude,pickup\_latitude

order by 1 desc

--- all the tables in the tables

select \* from lpep2015\_breadcrumb\_cmt

select \* from lpep2015\_breadcrumb\_vts

select \* from lpep2015\_triprecord\_cmt

select \* from lpep2015\_triprecord\_vts

--- view creation

create view temp\_vts as

select trip\_type,substr(cast(pickup\_latitude as string),1,8) as lat,

substr(cast(pickup\_longitude as string),1,9) as longitude,taximeter\_pickup\_datetime ,

YEAR(taximeter\_pickup\_datetime) AS YR,HOUR(taximeter\_pickup\_datetime) as HR,

MINUTE(taximeter\_pickup\_datetime) as MI,shl\_number,hack\_number

from lpep2015\_triprecord\_vts

where pickup\_latitude!=0 or pickup\_longitude!=0

create view temp\_vts\_byhr as

select count(\*) as cnt,lat,longitude,hr,mi from temp\_vts

group by lat,longitude,hr,mi

order by cnt desc

--- creating view of breadcrumb vts table

create view breadcrumb\_vts as

select shl\_number,hack\_number,substr(cast(latitude as string),1,8) as lat,

substr(cast(longitude as string),1,9) as longitude,

YEAR(lpep\_datetime) AS YR,MONTH(lpep\_datetime) as MON,HOUR(lpep\_datetime) as HR,

MINUTE(lpep\_datetime) as MI

from lpep2015\_breadcrumb\_vts

where latitude!=0 or longitude!=0

select substr(cast(latitude as string),1,8) as lat,

substr(cast(longitude as string),1,9) as longitude,

DAY(lpep\_datetime) DAY\_1,

TO\_DATE(lpep\_datetime) Da,MONTH(lpep\_datetime) MO,

HOUR(lpep\_datetime) as HR,

MINUTE(lpep\_datetime) as MI,shl\_number,hack\_number

from lpep2015\_breadcrumb\_vts

where (DAY(lpep\_datetime) between 7 and 13)

--- table columns :

|  |  |
| --- | --- |
| [lpep2015\_breadcrumb\_vts.shl\_number](javascript:void(0)) | STRING\_TYPE |
| [lpep2015\_breadcrumb\_vts.hack\_number](javascript:void(0)) | STRING\_TYPE |
| [lpep2015\_breadcrumb\_vts.lpep\_datetime](javascript:void(0)) | STRING\_TYPE |
| [lpep2015\_breadcrumb\_vts.latitude](javascript:void(0)) | FLOAT\_TYPE |
| [lpep2015\_breadcrumb\_vts.longitude](javascript:void(0)) | FLOAT\_TYPE |
| [lpep2015\_breadcrumb\_vts.type](javascript:void(0)) | TINYINT\_TYPE |

Analysis :

For CMT LPEP time is the more reliable timestamp while for VTS taximeter time is more reliable.

For vts taxitrip cnt is taken for values >20

And for breadcrumb vts cnt is taken for values >10