Created with help of yt channel Rishabh Sinha

-- creating the database

create database ubertype;

-- creating the table and inserting the values

CREATE TABLE trips(tripid integer,faremethod integer,fare integer,loc\_from integer,loc\_to integer,driverid integer,custid integer,distance integer,duration integer);

INSERT INTO trips(tripid,faremethod,fare,loc\_from,loc\_to,driverid,custid,distance,duration)

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INSERT INTO trips(tripid,faremethod,fare,loc\_from,loc\_to,driverid,custid,distance,duration)

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('1865','1','1','0','0','0','0','0','0','0'),

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('1891','27','1','0','0','0','0','0','0','0'),

('1892','9','1','0','0','0','0','0','0','0'),

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('1929','4','1','0','0','0','0','0','0','0'),

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('1933','10','1','0','0','0','0','0','0','0'),

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('2003','8','1','0','0','0','0','0','0','0'),

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('2160','17','1','0','0','0','0','0','0','0'),

('2161','31','1','0','0','0','0','0','0','0');

CREATE TABLE loc( id INT, assembly1 varchar(200));

INSERT INTO loc(id ,assembly1)

VALUES

('1','Mahadevapura'),

('2','B. T. M. Layout'),

('3','Bommanahalli'),

('4','C. V. Raman Nagar'),

('5','Shanti Nagar'),

('6','Bangalore South'),

('7','Krishnarajapuram'),

('8','Byatarayanapura'),

('9','Jayanagar'),

('10','Shivajinagar'),

('11','Sarvagnanagar'),

('12','Rajarajeshwarinagar'),

('13','Chickpet'),

('14','Malleshwaram'),

('15','Padmanabhanagar'),

('16','Gandhi Nagar'),

('17','Hebbal'),

('18','Yeshwantpur'),

('19','Basavanagudi'),

('20','Dasarahalli'),

('21','Yelahanka'),

('22','Mahalakshmi Layout'),

('23','Pulakeshinagar'),

('24','Vijay Nagar'),

('25','Govindraj Nagar'),

('26','Rajaji Nagar'),

('27','Anekal'),

('28','Chamrajpet'),

('29','Hoskote'),

('30','Nelamangala'),

('31','Other Assemblies'),

('32','Devanahalli'),

('33','Magadi'),

('34','Doddaballapur'),

('35','Ramanagaram'),

('36','Channapatna'),

('37','Kanakapura');

CREATE TABLE duration( id INT, duration varchar(200));

INSERT INTO duration(id ,duration)

VALUES

('1','0-1'),

('2','1-2'),

('3','2-3'),

('4','3-4'),

('5','4-5'),

('6','5-6'),

('7','6-7'),

('8','7-8'),

('9','8-9'),

('10','9-10'),

('11','10-11'),

('12','11-12'),

('13','12-13'),

('14','13-14'),

('15','14-15'),

('16','15-16'),

('17','16-17'),

('18','17-18'),

('19','18-19'),

('20','19-20'),

('21','20-21'),

('22','21-22'),

('23','22-23'),

('24','23-24');

CREATE TABLE payment( id INT, method varchar(2

00));

INSERT INTO payment(id ,method)

VALUES

('1','cash'),

('2','upi'),

('3','debit card'),

('4','credit card');

--total number of completed trips?

select count(\*) from trips where duration >0;

select count(\*) from trips where fare >0;

select count(\*) from trips\_details where otp\_entered=1

select count(\*) from trips\_details where end\_ride=1

-- all givng same 983 results.

-- total number of drivers?

select count(distinct(driverid)) from trips;

--total number of successful trips of each and every driver?

select driverid ,count(driverid)

from trips

group by driverid

order by driverid

-- total earnings generated from successful trips?

select sum(fare) from trips;

-- total earnings by each drivers individually?

select driverid,sum(fare) as total\_fare

from trips

group by driverid

order by driverid

-- total number of searches?

select searches,count(searches)

from trips\_details

group by searches

select sum(searches) from trips\_details

--searches which got an estimate?

select SEARCHES\_GOT\_ESTIMATE ,count(SEARCHES\_GOT\_ESTIMATE)

from trips\_details

where SEARCHES\_GOT\_ESTIMATE=1

group by SEARCHES\_GOT\_ESTIMATE

--searches which did not get an estimate?

select SEARCHES\_GOT\_ESTIMATE ,count(SEARCHES\_GOT\_ESTIMATE)

from trips\_details

where SEARCHES\_GOT\_ESTIMATE=0

group by SEARCHES\_GOT\_ESTIMATE

--we need to work in the locations where the searches did not get estimates.we need to start our services in these locations where no estimate was not obtained.many other things can also be determined from these results.

-- searches which actually got quotes i.e. found drivers

select SEARCHES\_GOT\_quotes ,count(SEARCHES\_GOT\_QUOTES)

from trips\_details

where SEARCHES\_GOT\_QUOTES=1

group by SEARCHES\_GOT\_QUOTES

--we need to check more things like time taken for getting quotes,drivers causing delay in getting quotes etc and improve services . scope for mprovement remains.

-- searches which actually did not get quotes i.e. did not find drivers

select SEARCHES\_GOT\_quotes ,count(SEARCHES\_GOT\_QUOTES)

from trips\_details

where SEARCHES\_GOT\_QUOTES=0

group by SEARCHES\_GOT\_QUOTES

--we need huge improvement in these cases where no quotes were given. we nned to mobilize more drivers improve the services , marketing and advertising also needs to be done from driver and customer perspectives.

-- total number of trips cancelled by drivers

select driver\_not\_cancelled, count(driver\_not\_cancelled)

from trips\_details

group by driver\_not\_cancelled

select driver\_not\_cancelled as trips\_cancelled\_by\_drivers, count(driver\_not\_cancelled) as cnt

from trips\_details

where driver\_not\_cancelled=0

group by driver\_not\_cancelled

-- total journeys where otp has been entered

select otp\_entered , count(otp\_entered) as cnt

from trips\_details

where otp\_entered=1

group by otp\_entered

-- check how many rides have ended

select END\_RIDE, count(END\_RIDE) as cnt

from trips\_details

where END\_RIDE=1

group by END\_RIDE

--average distance per trip

select avg(distance)

from trips

--average fare per trip

select avg(fare)

from trips

--total distance travelled as per database

select sum(distance) from trips

--what is the most used payment method?

select top 1 p.method , t.faremethod , count(t.faremethod) as number\_of\_transactions

from trips as t

inner join payment as p

on t.faremethod=p.id

group by t.faremethod,p.method

order by number\_of\_transactions desc

---------------------------------------------------------------------------------------

select p.method from payment as p

inner join

(select top 1 faremethod

from trips as q

group by q.faremethod

order by count(q.faremethod) desc) t

on p.id=t.faremethod

--total payment through each method?

select p.method as payment\_method,sum(t.fare) as total\_money

from trips as t

inner join payment as p on t.faremethod=p.id

group by p.method

order by total\_money desc

--highest payment through which instrument?

select top 1 p.method as payment\_method,sum(t.fare) as total\_money

from trips as t

inner join payment as p on t.faremethod=p.id

group by p.method

order by total\_money desc

--lowest payment through which instrument?

select top 1 p.method as payment\_method,sum(t.fare) as total\_money

from trips as t

inner join payment as p on t.faremethod=p.id

group by p.method

order by total\_money

-- what is the highest money ever paid in these platform and through which instrument?

select \* from (

select p.method, t.\*,dense\_rank() over(order by fare desc) as rankings

from trips as t

inner join payment as p on t.faremethod=p.id

)

where rankings=1

-- which is the most visited location?

select top 1 loc\_from,count(loc\_from) as frequency\_of\_visiting

from trips

group by loc\_from

order by count(loc\_from) desc

-- which is the most used source destination where the journey started?

select top 1 loc\_from,count(loc\_from) as frequency\_of\_visiting

from trips

group by loc\_from

order by count(loc\_from)

-- most travelled loc\_from and loc\_to pairs

select loc\_from,loc\_to,count(distinct tripid)

from trips

group by loc\_from,loc\_to

order by count(distinct tripid) desc

-- cannot use all time hardcoded values with top function and hence can use dense\_rank function as previous

select \* from

(

select loc\_from,loc\_to,count(distinct tripid),

dense\_rank() over(order by count(distinct tripid) desc) as rankings

from trips

group by loc\_from,loc\_to

order by count(distinct tripid) desc

)

where rankings =1

--top 5 earning drivers?

select \* from

(

select \*,dense\_rank() over(order by money\_earned desc ) as rankings from

(

select sum(fare) as money\_earned,driverid,count(driverid) as number\_of\_trips from trips

group by driverid

order by money\_earned desc

))

where rankings between 1 and 5

-- which duration had the most trips recorded?

select duration from trips

select top 1 duration , count(distinct tripid) as cnt

from trips

group by duration

order by cnt desc

--which driver , customer pair had most number of orders?

select \* from

(

select \* ,dense\_rank() over(order by cnt desc) rnk from

(

select custid , driverid ,count(distinct tripid) cnt

from trips

group by custid,driverid

order by cnt desc

)

)

where rnk=1

-- search to estimate rate?

select searches , count(distinct tripid) as number\_of\_searches

from trips\_details

where searches = 1

group by searches

select searches\_got\_estimate , count(distinct tripid) as number\_of\_searches\_got\_estimate,

from trips\_details

where searches\_got\_estimate = 1

group by searches\_got\_estimate

select (sum(searches\_got\_estimate)/sum(searches))\*100 from trips\_details

-- estimate to search for quotes out of searches got estimate rate?

select (sum(searches\_for\_quotes)/sum(searches\_got\_estimate))\*100 from trips\_details

--estimate to searches got quotes to search for quotes rate?

select (sum(searches\_got\_quotes)/sum(searches\_for\_quotes))\*100 from trips\_details

-- got quotes to booking rate? i.e. got quotes/cust\_not\_cancelled

select (sum(customer\_not\_cancelled)/sum(searches\_got\_quotes))\*100 from trips\_details

-- got quotes to booking rate? i.e. got quotes/cust\_cancelled

select 100 - ((sum(customer\_not\_cancelled)/sum(searches\_got\_quotes))\*100 )from trips\_details

-- name all the area with their respective number of highest trips and during which duration?

select \* from

(select \* , dense\_rank() over(partition by loc\_from order by cnt desc ) as rnk from

(select loc\_from,duration,count(distinct tripid) as cnt from trips

group by loc\_from,duration

))

where rnk=1

order by loc\_from

-- which area got the highest trips,cancellations and fares?

select t.loc\_from, count(distinct t.tripid) as cnt from trips as t

full outer join trips\_details as td

on t.tripid=td.tripid

group by t.loc\_from

order by cnt desc

select t.loc\_from, sum(t.fare) as amt from trips as t

full outer join trips\_details as td

on t.tripid=td.tripid

group by t.loc\_from

order by amt desc

select td.loc\_from, count(td.driver\_not\_cancelled) as cnt1 from trips as t

full outer join trips\_details as td

on t.tripid=td.tripid

where td.driver\_not\_cancelled=0

group by td.loc\_from

order by cnt1 desc

select td.loc\_from, count(td.customer\_not\_cancelled) as cnt1 from trips as t

full outer join trips\_details as td

on t.tripid=td.tripid

where td.customer\_not\_cancelled=0

group by td.loc\_from

order by cnt1 desc

-- which duration got the highest trips and fares?

select duration , count(distinct tripid) as cnt

from trips

group by duration

order by cnt

select duration , sum(fare) as amt

from trips

group by duration

order by amt desc