Change To 'DATE' type value from 'TEXT' -->>

```
SQL> ALTER TABLE ola_data ADD pickup_dt DATE;
SQL> UPDATE ola_data SET
pickup_dt = STR_TO_DATE(pickup_date, '%d-%m-%Y');
```

Change String to TIME -->>

SQL> UPDATE ola_data SET pickup_tm = CAST(pickup_time AS TIME) ;

```
UPDATE ola_data SET pickup_tm = CAST(pickup_time AS TIME) ;
```

er_number	Service_status	Status	Fare	Distance	Confirmed_at	pickup_dt	pickup_tm
	done	6	918	61	14-11-2013 09:53	2013-11-15	04:45:00
	cancelled	4	895	60	20-11-2013 22:36	2013-11-21	08:15:00
	done	6	860	57	09-11-2013 12:48	2013-11-09	16:00:00
	done	6	331	22	11-11-2013 07:19	2013-11-11	09:00:00
	done	6	432	29	31-10-2013 20:09	2013-11-01	06:00:00

#	Time	Action	Message
11	11:21:06	SELECT CAST('pickup_time' AS TIME) AS ConvertedTime LIMIT 0, 500	1 row(s) returned
12	11:21:34	SELECT CAST('pickup_time' AS TIME) from ola_data LIMIT 0, 500	500 row(s) returned
13	11:24:32	SELECT CAST(pickup_time AS TIME) from ola_data LIMIT 0, 500	500 row(s) returned
14	11:25:45	UPDATE ola_data SET pickup_tm = CAST(pickup_time AS TIME)	1356 row(s) affected Rows matched: 1356 Changed: 1356 Warnings: 0
15	11:25:58	select * from ola_data LIMIT 0, 500	500 row(s) returned

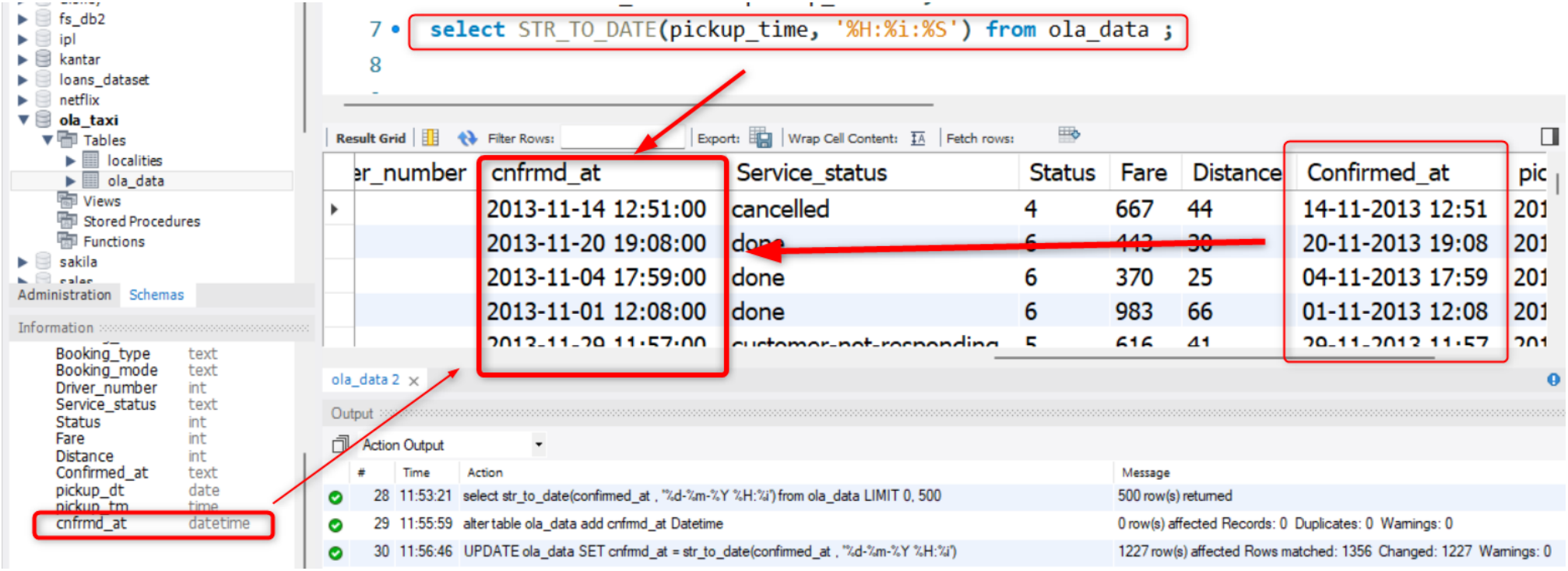
Prasun Karar

Change STRING to DATETIME -->>

SQL> alter table ola_data add cnfrmd_at Datetime ;

SQL> select str_to_date(confirmed_at , '%d-%m-%Y %H:%i') from ola_data ;

SQL> UPDATE ola_data
SET cnfrmd_at = str_to_date(confirmed_at , '%d-%m-%Y %H:%i');



Prasun Karar

1.Find hour of 'pickup' and 'confirmed_at' time, and make a column of weekday as "Sun,Mon, etc"next to pickup_datetime

SQL>

```
select hour(pickup_time),
pickup_date,
dayname(pickup_dt) `pickup_day`,
cnfrmd_at
from ola_data ;
```

```
7 • select hour(pickup_time),
8   pickup_date,
9   dayname(pickup_dt) `pickup_day`,
10  cnfrmd_at
11  from ola_data ;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

hour(pickup_time)	pickup_date	pickup_day	cnfrmd_at
14	14-11-2013	Thursday	2013-11-14 12:51:00
5	21-11-2013	Thursday	2013-11-20 19:08:00
19	04-11-2013	Monday	2013-11-04 17:59:00
18	01-11-2013	Friday	2013-11-01 12:08:00
11	30-11-2013	Saturday	2013-11-29 11:57:00

Result 3

1.Make a table with count of bookings with booking_type = p2p catgorized by booking mode as 'phone', 'online','app',etc

```
select count(*) from ola_data where booking_type='p2p'
 and booking_mode in ('phone','online','app') ;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

count(*)
253

SQL> select count(*) from ola_data where booking_type='p2p'
and booking_mode in ('phone','online','app') ;

OR--

```
SELECT Booking_mode, Count(*) as Cnt
FROM ola_data
WHERE booking_type = "p2p"
Group by Booking_mode;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Booking_mode	Cnt
phone	212
online	31
app	10

Prasun Karar

Create columns for pickup and drop ZONES (using Localities data containing Zone IDs against each area) and fill corresponding values against pick-area and drop_area, using Sheet'Localities'

```
SQL> SELECT
   od.PickupArea ,
   pickup_zone.zone_id ,
   od.DropArea ,
   drop_zone.zone_id
FROM
   ola_data od
JOIN
   localities pickup_zone ON od.PickupArea = pickup_zone.Area
JOIN
   localities drop_zone ON od.DropArea = drop_zone.Area;
```

OR -->>

```
SELECT
   od.PickupArea ,
   L1.zone_id ,
   od.DropArea ,
   L2.zone_id
FROM
   ola_data od
JOIN
   localities L1 ON od.PickupArea = L1.Area
JOIN
   localities L2 ON od.DropArea = L2.Area;
```

```
8  SELECT
9      od.PickupArea ,
10     pickup_zone.zone_id ,
11     od.DropArea ,
12     drop_zone.zone_id
13 FROM
14     ola_data od
15 JOIN
16     localities pickup_zone ON od.PickupArea = pickup_zone.Area
17 JOIN
18     localities drop_zone ON od.DropArea = drop_zone.Area;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

PickupArea	zone_id	DropArea	zone_id
noida sector 122	72	Airport Terminal 1	43
Noida sector 126	72	Airport Terminal 1	43
Noida sector 126	72	Airport Terminal 1	43
crossing republik ghazi...	73	Airport Terminal 1	43
HUDA City Cente, Secto...	60	Airport Terminal 1	43
HUDA City Cente, Secto...	60	Airport Terminal 1	43

Prasun Karar

```
-- Top 5 revenue as per pickup area
SELECT
    L.zone_id ,
    sum(fare)
FROM
    ola_data od
JOIN
    localities L ON od.DropArea = L.Area
    group by L.zone_id
    order by sum(fare) desc
    limit 5;
```

```
9  SELECT
10     L.zone_id ,
11     sum(fare)
12 FROM
13     ola_data od
14 JOIN
15     localities L ON od.DropArea = L.Area
16     group by L.zone_id
17     order by sum(fare) desc
18     limit 5;
19 -- ----------------------------------------
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

zone_id	sum(fare)
43	184803
47	87842
27	64976
45	33007
42	24723

TOP 5 Drop Area as per revenue -->>

```
SQL> SELECT zone_id, Sum(fare) as SumRevenue
FROM ola_Data as D, Localities as L
WHERE D.pickuparea = L.Area
Group By Zone_id
Order By 2 DESC
Limit 5;
```

OR

With Rank -->

```
with CTE AS (
   SELECT zone_id, Sum(fare) as SumRevenue
FROM ola_Data as D, Localities as L
WHERE D.pickuparea = L.Area
Group By Zone_id
Order By 2 DESC
Limit 5)
select zone_id, SumRevenue ,
rank() over(order by SumRevenue desc) `rank` from
CTE ;
```

Find top 5 drop zones in terms of average revenue

-- Top 5 average revenue as per drop area -->>

SELECT zone_id, count(*) `number_of_booking`, round(avg(fare),0) as AvgRevenue
FROM ola_Data as D, Localities as L
WHERE D.pickuparea = L.Area
Group By Zone_id
Order By 2 DESC
Limit 5 ;

```
-- Top 5 average revenue as per drop area  -->>

SELECT zone_id, count(*) `number_of_booking`, round(avg(fare),0) as AvgRevenue
FROM ola_Data as D, Localities as L
WHERE D.pickuparea = L.Area
Group By Zone_id
Order By 2 DESC
Limit 5
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

zone_id	number_of_booking	AvgRevenue
43	267	630
27	149	593
47	68	683
66	63	616
60	63	636

Find all unique driver numbers grouped by top 5 pick zones

```
SQL> SELECT
   pz,
   COUNT(DISTINCT Driver_number) AS unique_driver_count
FROM
   (
      SELECT
         L.Area AS pz,
         COUNT(o.Booking_id) AS total_bookings
      FROM
         ola_data o
      JOIN
         localities L ON o.PickupArea = L.Area
      GROUP BY
         L.Area
      ORDER BY
         total_bookings DESC
      LIMIT 5
   ) top_pickup_zones
JOIN
   ola_data o ON o.PickupArea = top_pickup_zones.pz
GROUP BY
   pz;
```

Make a hour wise table of bookings for week between Nov01-Nov-07 and highlight the hours with more than average no.of bookings day wise

SQL>

```
select hour(pickup_tm) `pickup time`,count(booking_id) `hourly count` from ola_data
where pickup_dt between '2013-11-01' and '2013-11-07'
group by hour(pickup_tm)
order by 1;
```

```
select hour(pickup_tm) `pickup time`,count(booking_id) `hourly count` from ola_data
where pickup_dt between '2013-11-01' and '2013-11-07'
group by hour(pickup_tm)
order by 1;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

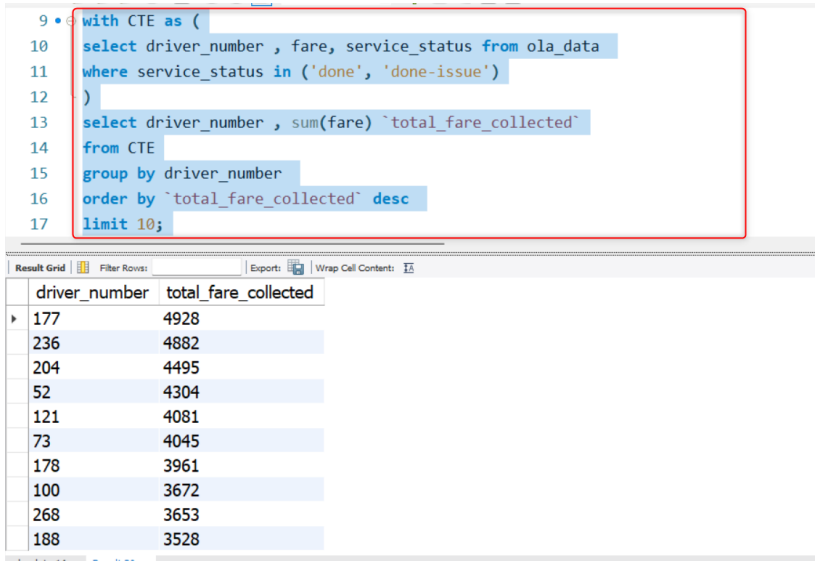
pickup time	hourly count
0	23
1	11
2	11
3	27
4	60
5	70

Make a list of top 10 driver by driver numbers in terms of fare collected where service_status is done, done-issue

SQL>

-- find top 10 driver as fare collection

```
with CTE as (
select driver_number , fare, service_status from ola_data
where service_status in ('done', 'done-issue')
)
select driver_number , sum(fare) `total_fare_collected`
from CTE
group by driver_number
order by `total_fare_collected` desc
limit 10;
```



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

driver_number	total_fare_collected
177	4928
236	4882
204	4495
52	4304
121	4081
73	4045
178	3961
100	3672
268	3653
188	3528