User Guide For Data Creation

To Execute Query use AStack Console.

Note : White background UI is AStack Console

System Initialisation

This is one time activity. If anyone want to do system setup from scratch or want to do multiple end-to-end runs in signgle day then follow below steps.

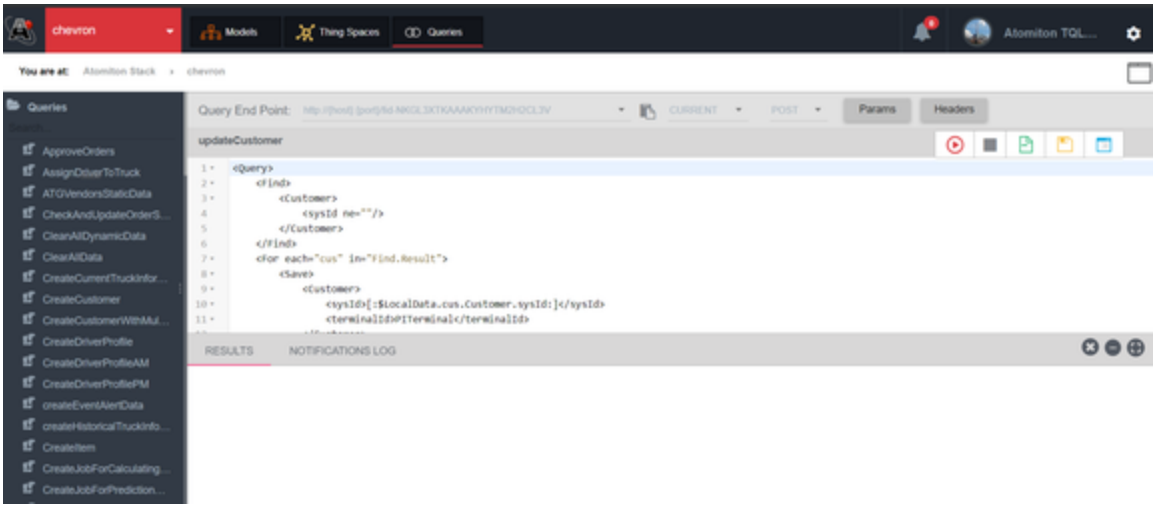
Open Atsack Console using below link and credentials

URL : http://chevronstg.atomiton.com:8080/app/index.html#/login

User Name : tqlengine@atomiton.com

Password : tql123

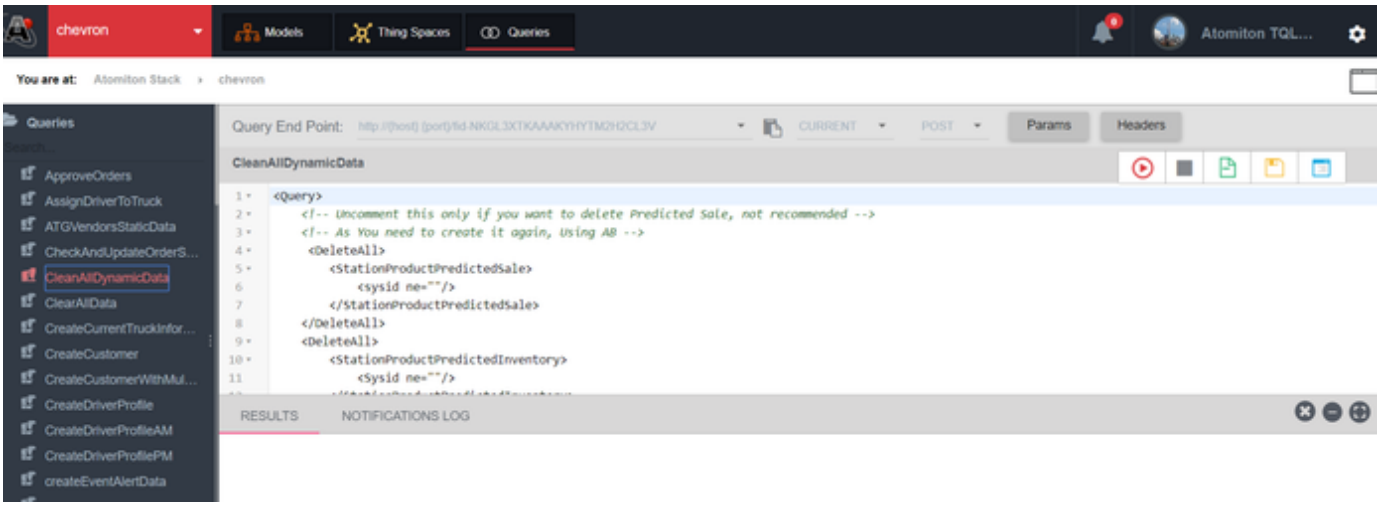
After Login go to "Query" tab



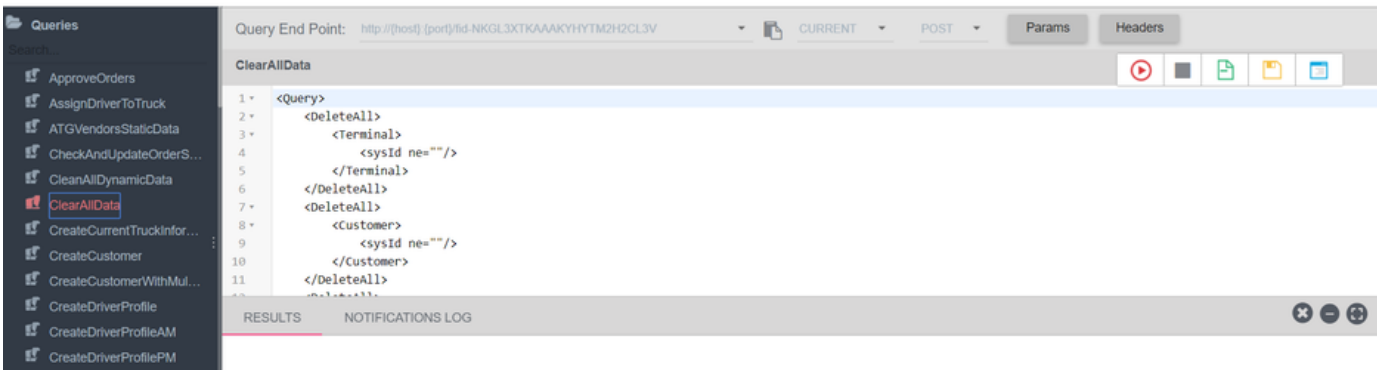
Left Panel shows list of queries. Scroll up and down to find query. Select query from list and press execute button.

Flushing All Data

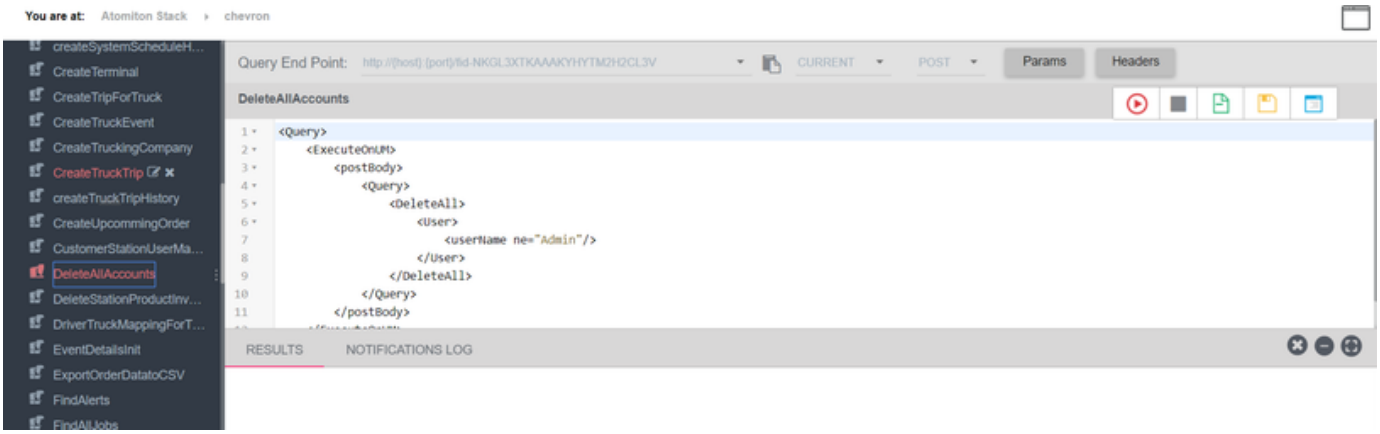
1. Execute "CleanAllDynamicData" query. This query delete all dynamic data.



2. Execute "ClearAllData" query. This query flush all entity data.

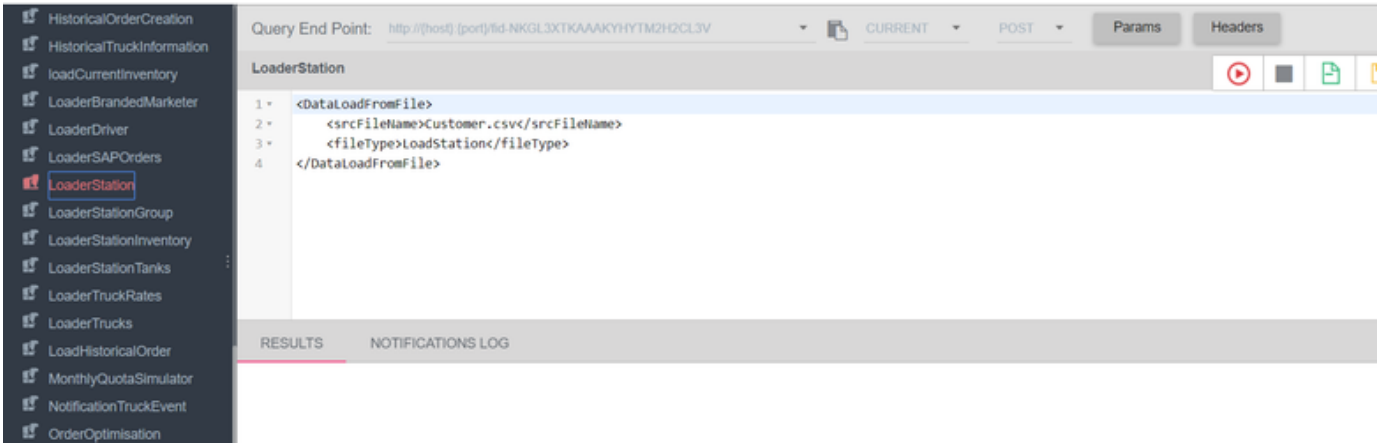


3. Execute "DeleteAllAccount" query. This query delete all user accounts excluding Admin.

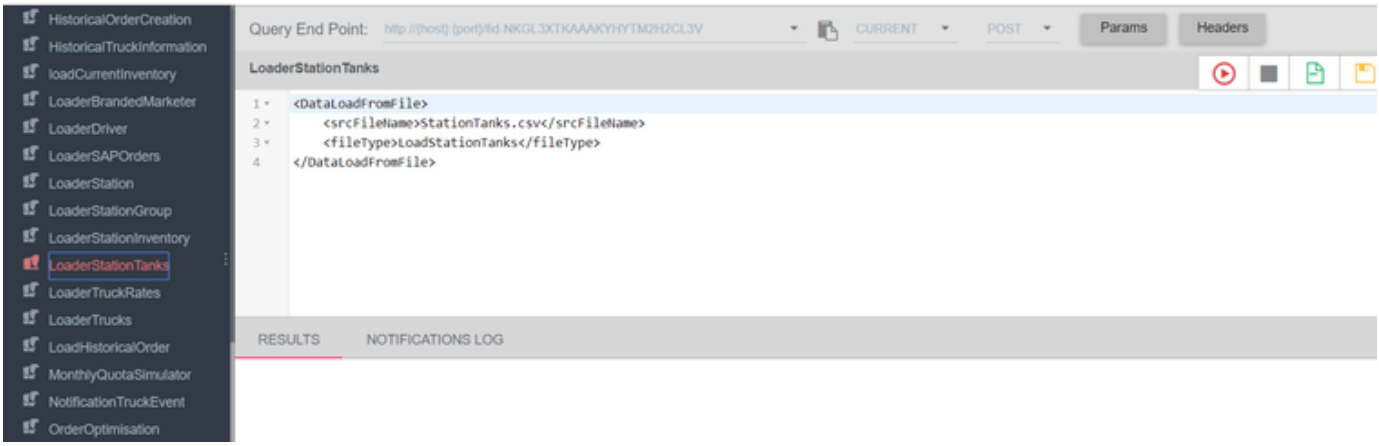


Init Static Data

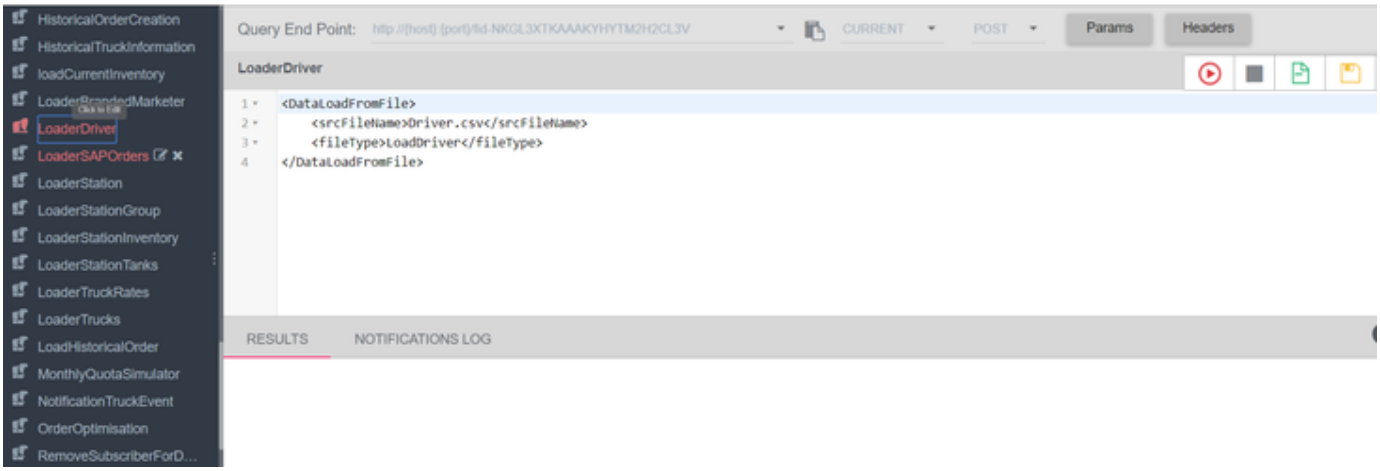
1. Execute "CreateTerminal" query and after completion execute "LoaderStation" query. After this query wait for minute. It's creating all customer and and stations insystem and account get created for every station.



2. Execute "LoaderStationGroup" query, after completion execute "LoaderBrandedMarketer" and "CreateQuotaForStation". Execute "LoaderStationTanks" query and wait for minute. It's updating station with group, BM and Tanks.



3. Execute "CreateTruckingCompany" query then execute "LoaderTrucks" query then execute "LoaderTruckRates" query and then execute "LoaderDriver" query.



After execution of all these query system initialisation is done.

Check all data getting populated on dashboard or Not

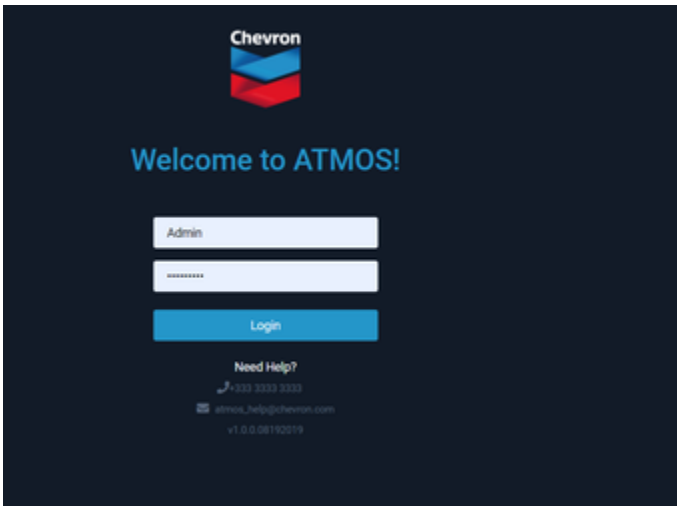
Data Verification On Dashboard

Log in on Dashbord using below credentials

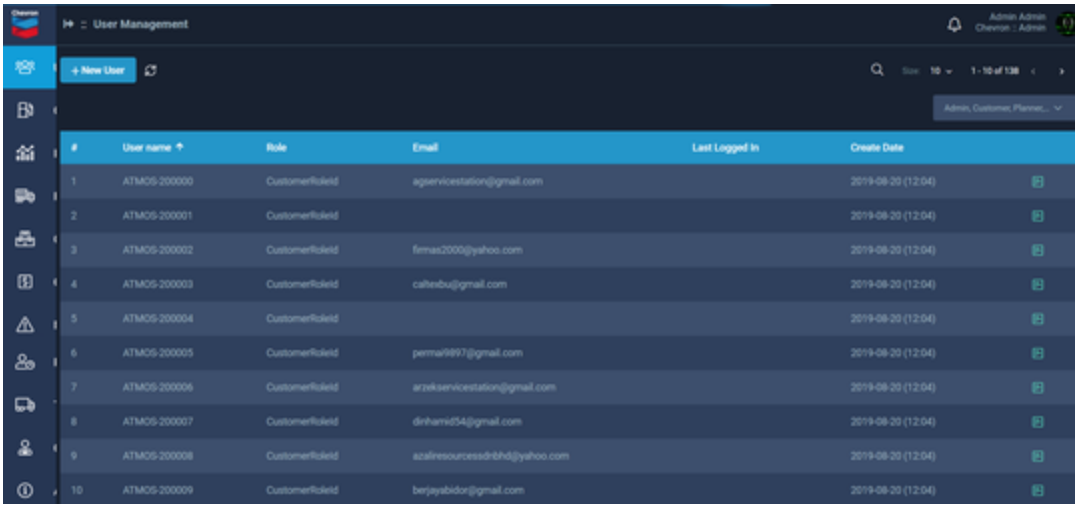
URL : http://chevronstg.atomiton.com:8080/fid-Chevron/#/auth/login

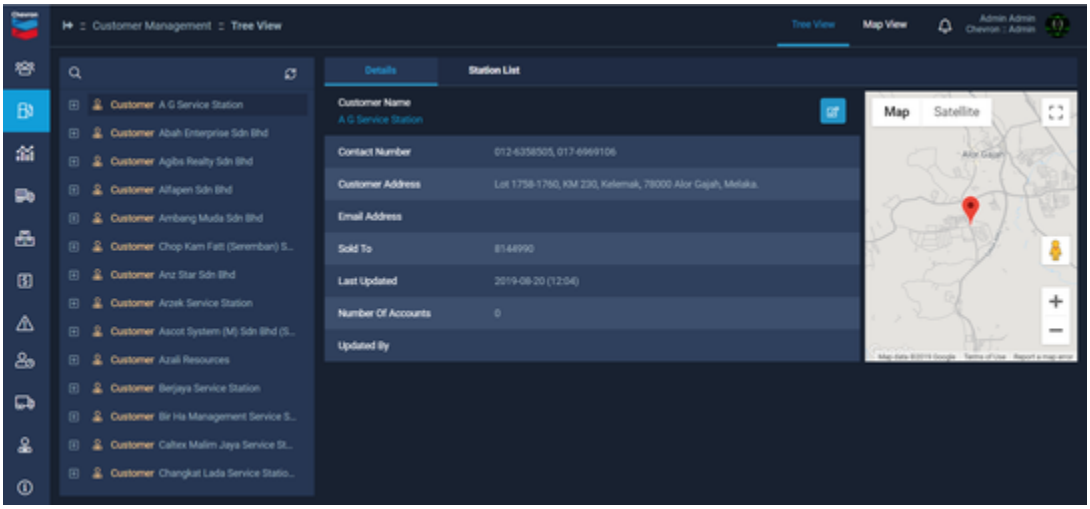
UserName : Admin

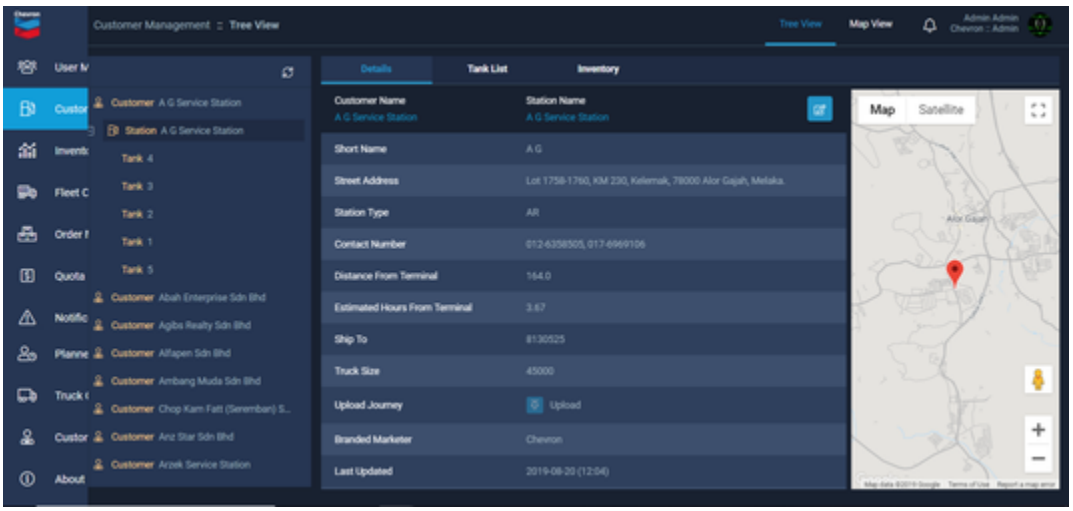
Password : Pass@1234

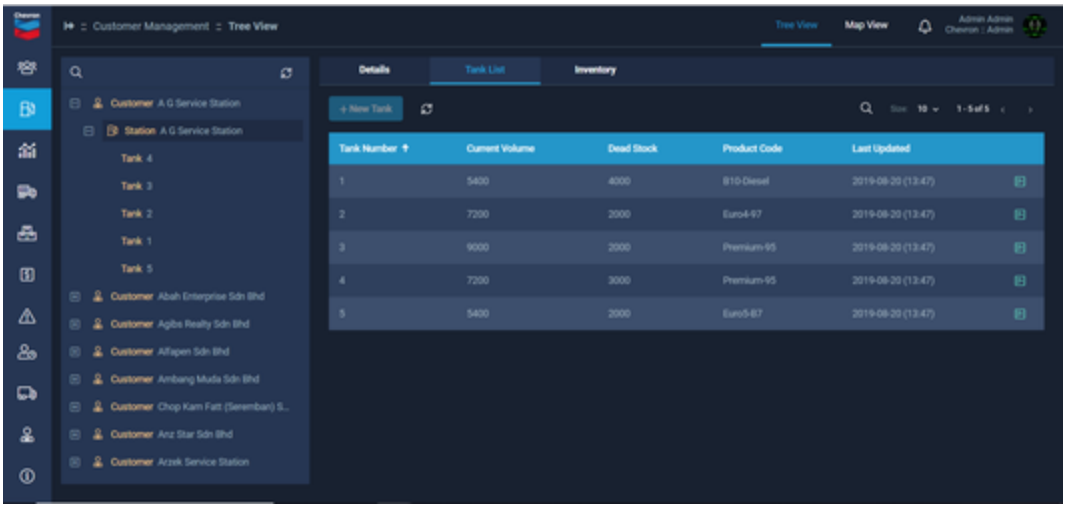


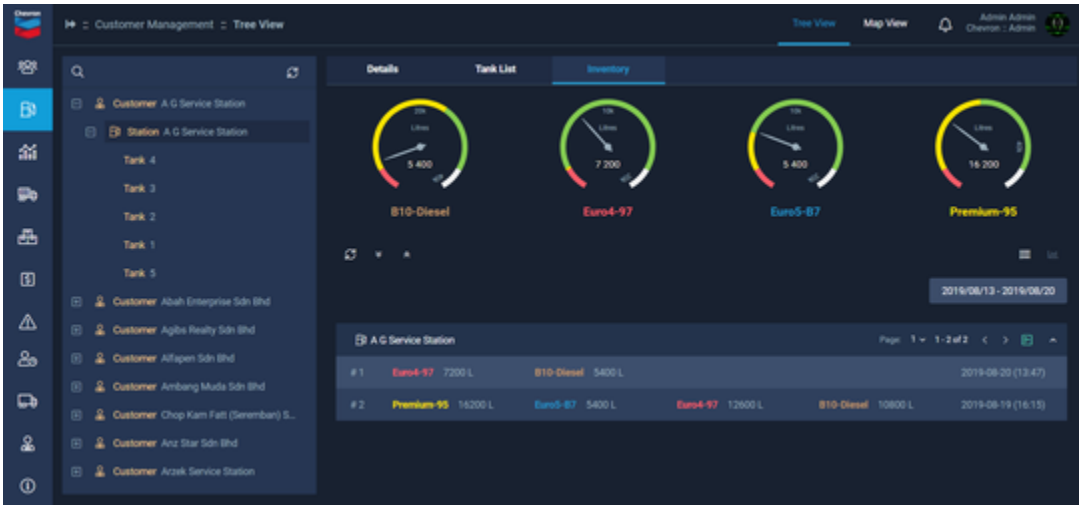
1. Verify all customer and station data. Verify Tank data.


User Management
+ New User
# | User name | Role | Email | Last Logged In | Create Date
1 | ATMOS-200000 | CustomerRoleId | agservicestation@gmail.com | | 2019-08-20 (12:04)
2 | ATMOS-200001 | CustomerRoleId | | | 2019-08-20 (12:04)
3 | ATMOS-200002 | CustomerRoleId | fernax2000@yahoo.com | | 2019-08-20 (12:04)
4 | ATMOS-200003 | CustomerRoleId | caltexbu@gmail.com | | 2019-08-20 (12:04)
5 | ATMOS-200004 | CustomerRoleId | | | 2019-08-20 (12:04)
6 | ATMOS-200005 | CustomerRoleId | permal8897@gmail.com | | 2019-08-20 (12:04)
7 | ATMOS-200006 | CustomerRoleId | arzekservicestation@gmail.com | | 2019-08-20 (12:04)
8 | ATMOS-200007 | CustomerRoleId | dinhamid54@gmail.com | | 2019-08-20 (12:04)
9 | ATMOS-200008 | CustomerRoleId | azaliresourcessdnbhd@yahoo.com | | 2019-08-20 (12:04)
10 | ATMOS-200009 | CustomerRoleId | berjayabidor@gmail.com | | 2019-08-20 (12:04)

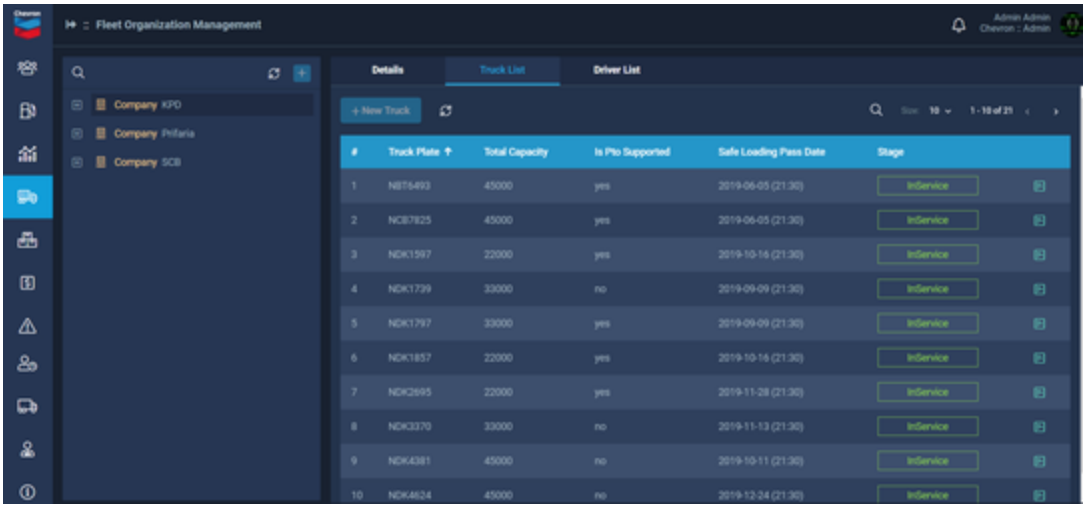

Customer Management :: Tree View
Tree View
Map View
Details
Station List
Customer Name
A G Service Station
Contact Number
012-6358505, 017-6969106
Customer Address
Lot 1758-1760, KM 230, Kelemak, 78000 Alor Gajah, Melaka.
Email Address
Sold To
8144990
Last Updated
2019-08-20 (12:04)
Number Of Accounts
0
Updated By
Map
Satellite
Customer A G Service Station
Customer Abah Enterprise Sdn Bhd
Customer Agibs Realty Sdn Bhd
Customer Alfapen Sdn Bhd
Customer Ambang Muda Sdn Bhd
Customer Chop Kam Fatt (Seremban) S...
Customer Anz Star Sdn Bhd
Customer Arzek Service Station
Customer Ascot System (M) Sdn Bhd (S...
Customer Azali Resources
Customer Berjaya Service Station
Customer Bir Ha Management Service S...
Customer Caltex Malim Jaya Service St...
Customer Changkat Lada Service Statio...

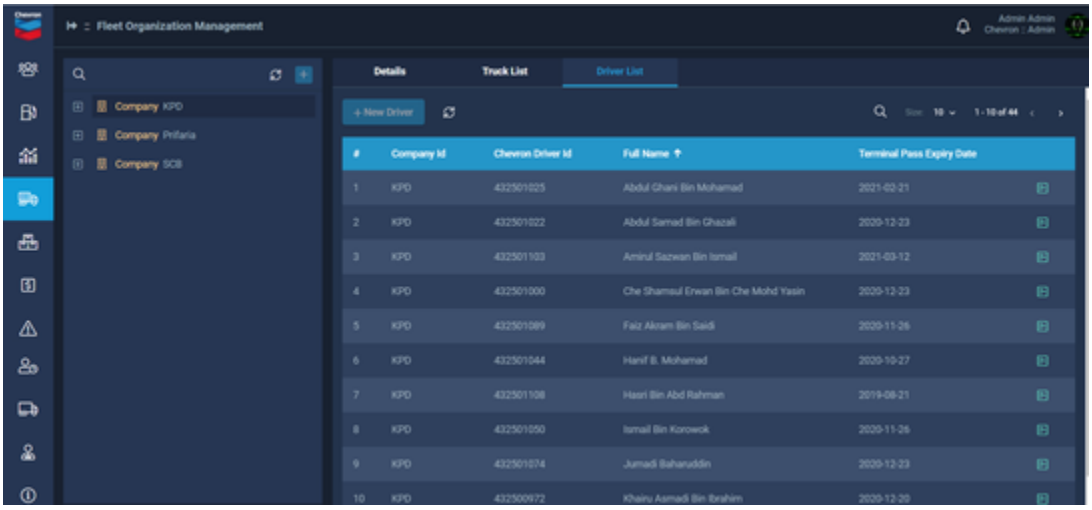

Customer Management :: Tree View
Tree View
Map View
Details
Tank List
Inventory
Customer Name
A G Service Station
Station Name
A G Service Station
Short Name
A G
Street Address
Lot 1758-1760, KM 230, Kelemak, 78000 Alor Gajah, Melaka.
Station Type
AR
Contact Number
012-6358505, 017-6969106
Distance From Terminal
164.0
Estimated Hours From Terminal
3.67
Ship To
8130525
Truck Size
45000
Upload Journey
Upload
Branded Marketer
Chevron
Last Updated
2019-08-20 (12:04)
Map
Satellite
Station A G Service Station
Tank 4
Tank 3
Tank 2
Tank 1
Tank 5





2. Verify Truck company data.





Daily Dynamic Data Creation

This is daily process executed in system. Some of them are time based, some of them are manual.

If any one want to execute this whole day flow in minimum time we provided some manual steps and some simulated data, Which will help you to execute whole process.

Sales Prediction & Inventory Prediction

This is AStack's analytics algorithm which executed every night and provide predicted sales for next 7 days. On the basis of predicted sales and current inventory predicted inventory get calculated.

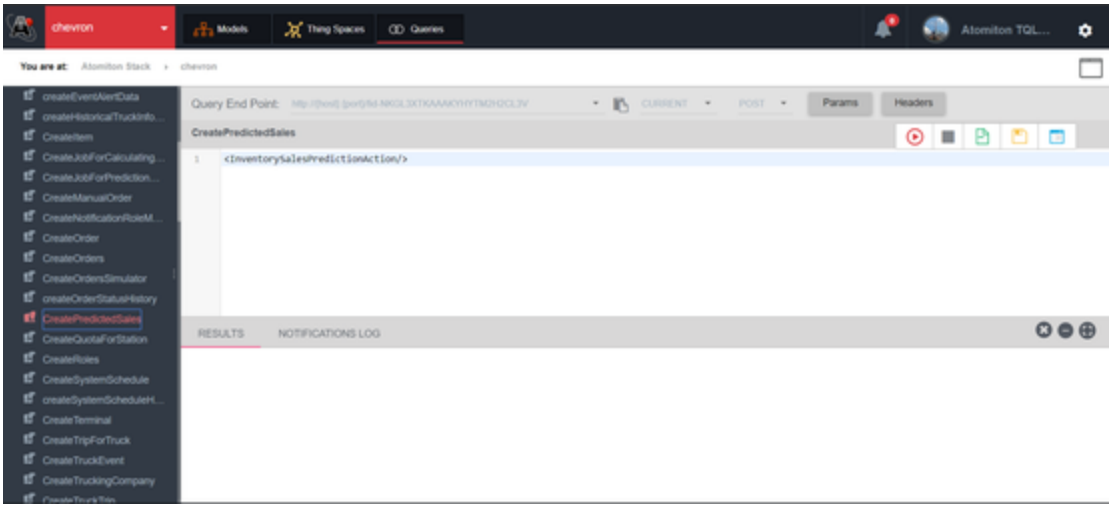
This is executed by system.

Formula Used : Next Day Predicted Inventory = (Today's Inventory + Today's Order) - Today's Sales

Frequency : Every Day mid night 12.00 AM

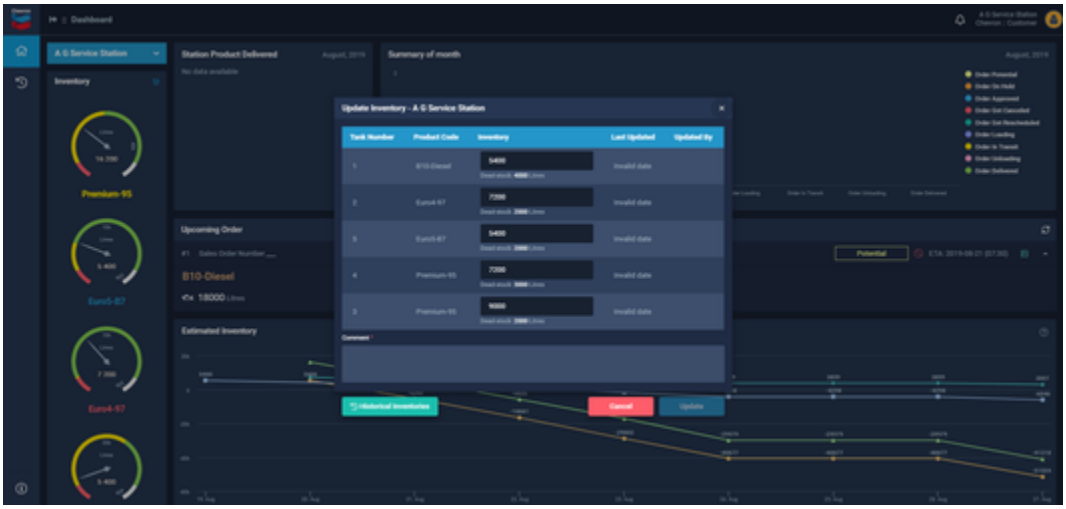
If any one want to check end-to-end flow and flush the data. No need to wait till mid night, execute below query and wait for 5min. It will get predicted sales for all stations product and populate data in the system.

Execute "CreatePredictedSales" query.

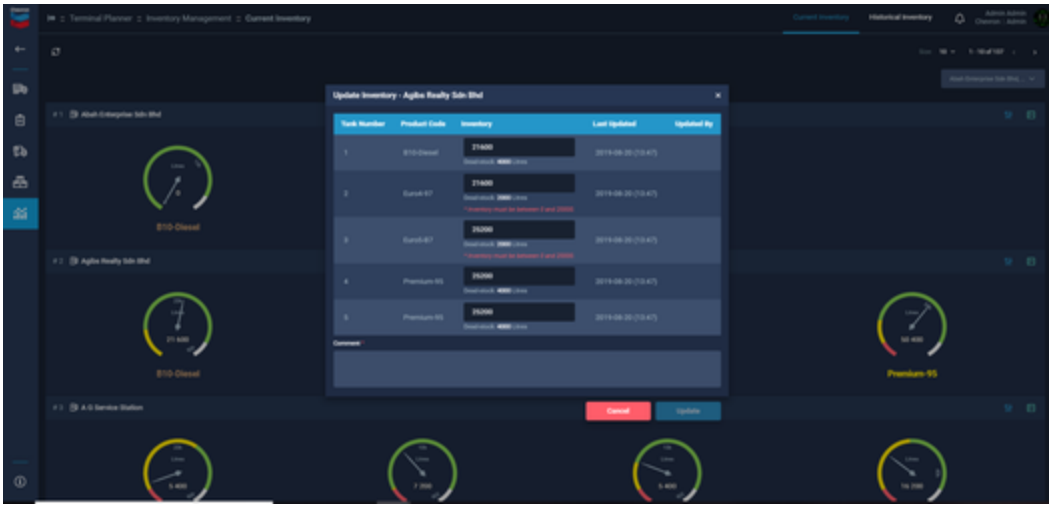


Update Station Product Inventory

1. Customer Dashboard : To Update inventory of station, customer can use customer dashbord to update inentory every day.



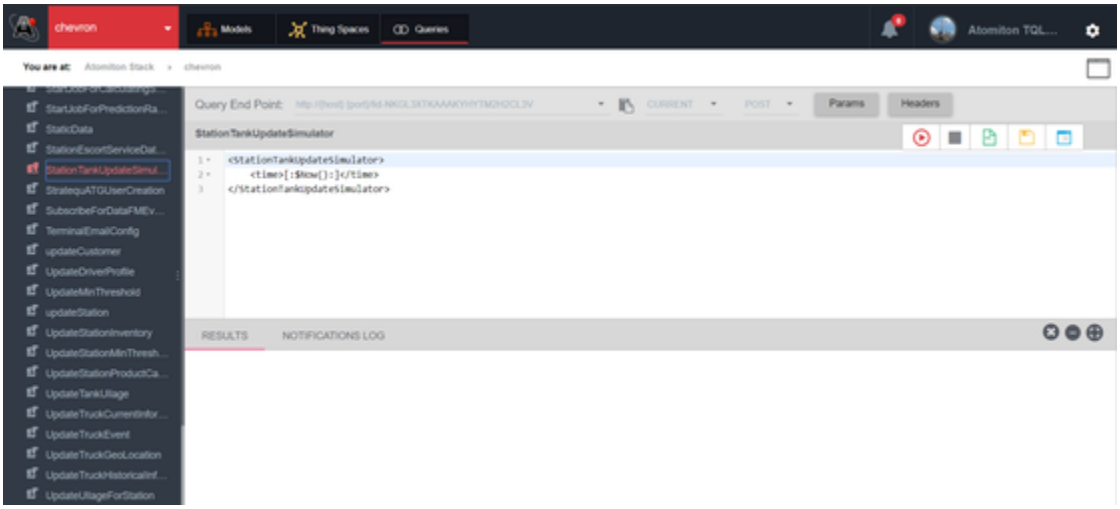
2. Admin / Planner Dashboard : From Admin/Planner dashbord's Inventory management terminal user also can update the inventory of station for the day.



OR

If any one want to execute flow in minimum time or want to use simulated inventory data execute below query to generate inventory for some stations.

Execute "StationTankUpdateSimulator" query. This will update inventory for some of the stations. This will take 1 minute to update inventory.

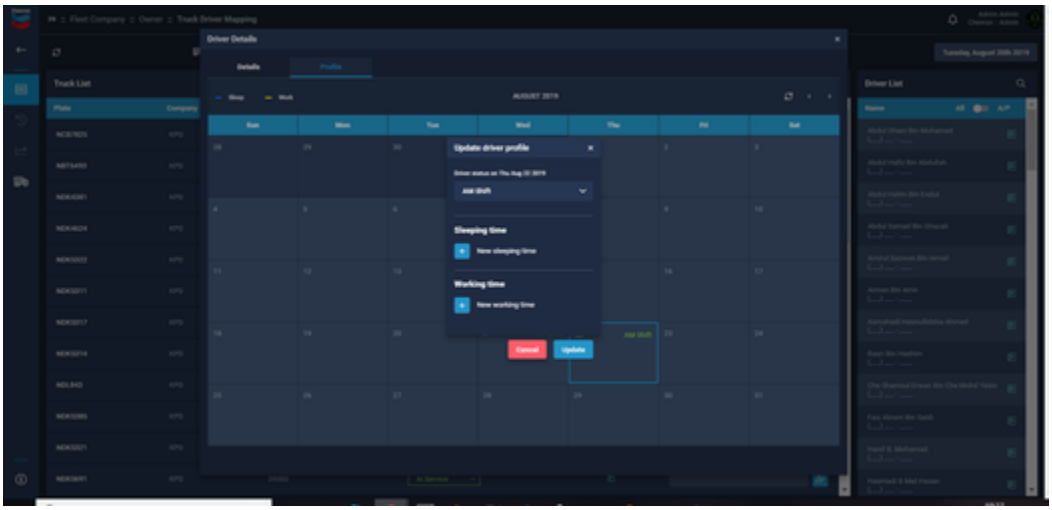


Verify data on dashbord. Check invetory management and AR sheet from planner dashboard. Updated inventory is reflected on dashboard or not

Truck Availability For Next Day

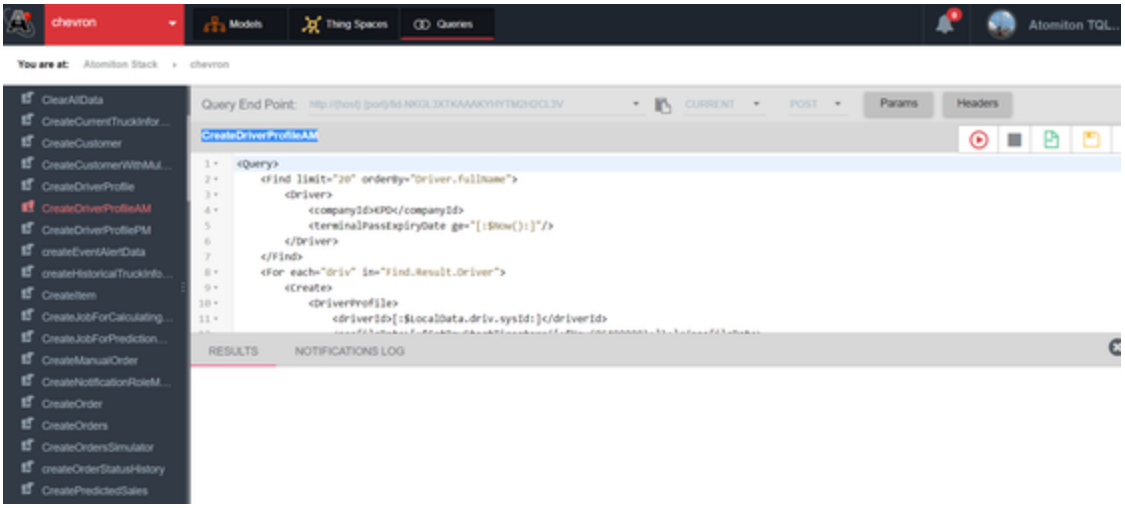
Login from truck operator/ owner dashboard and update driver profile for tommorow. Select date of tommorow or any future date for which you want to update driver profile.

In driver profile you can update shift of the driver, leaves , Sleeping Hours and Working hours.

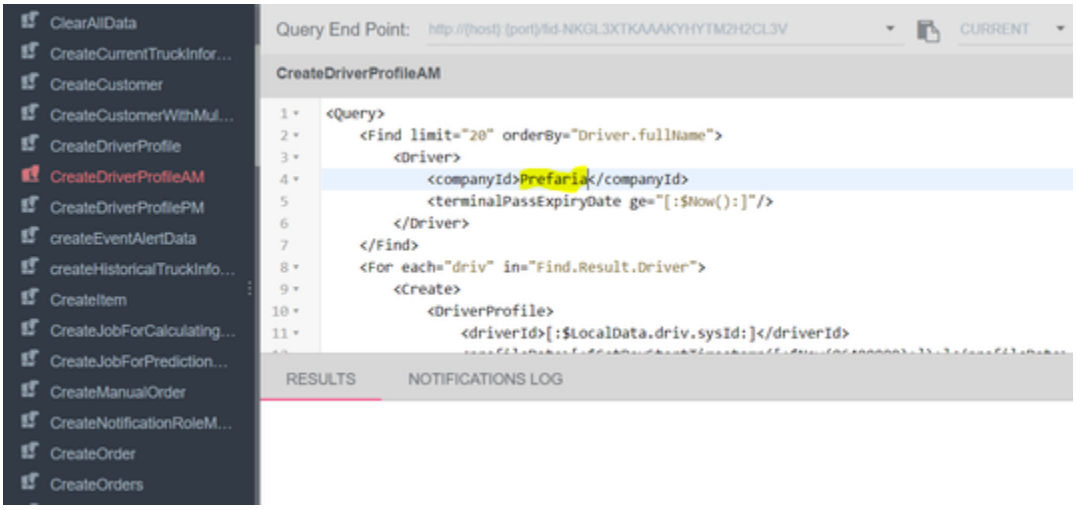


If user want to check end to end flow in minimum time there is simulated option to bulk update driver profiles.

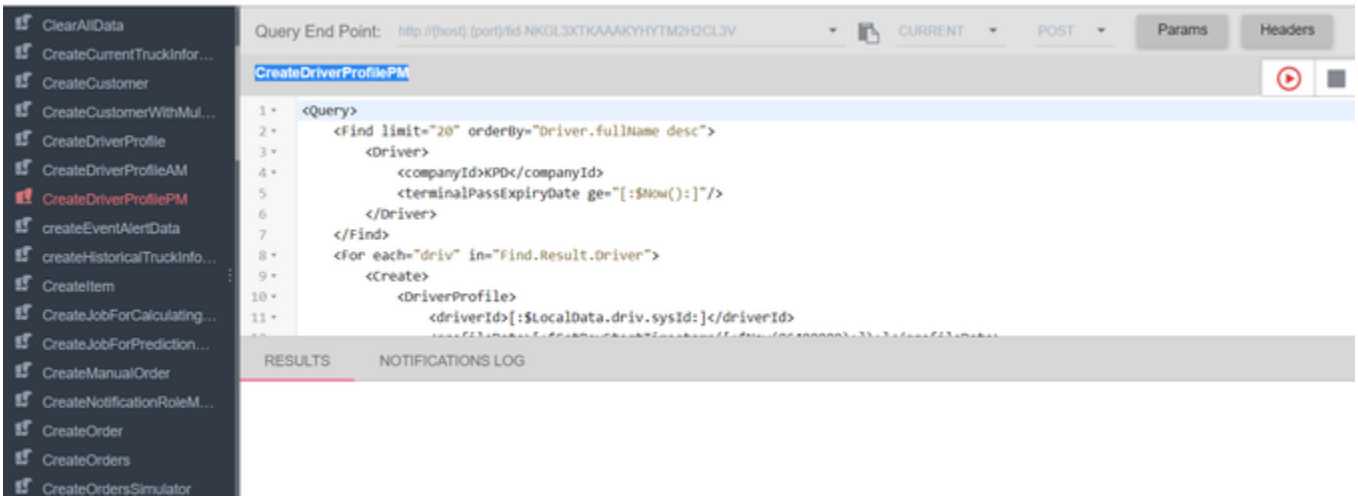
Execute "CreateDriverProfileAM" query, It's create driver profile for 20 drivers and assign AM shift to them for KPD company.



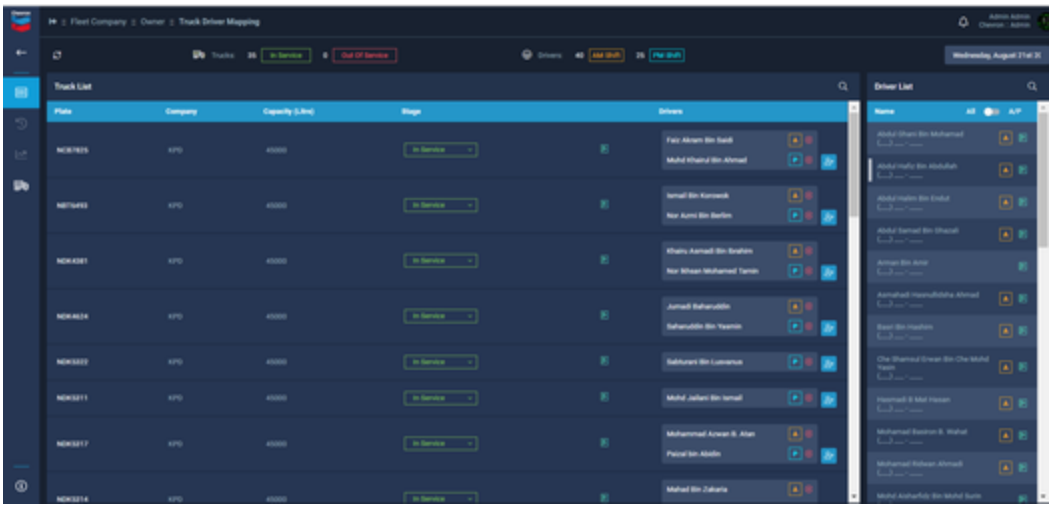
Change company Id in query, replace **KPD** with **Prefaria** and execute query again. It will update driver profile for 20 drivers and assign PM shift to them for Prefaria company.



Execute "CreateDriverProfilePM" query to update driver profile. It's create driver profile for tommorow and assign PM shift for 20 drivers from KPD company



Check driver profiles are reflected in dashboard or not. Check in truck dashboard. Select date (tommorow) for which driver profile is created. Assign drivers to the trucks.



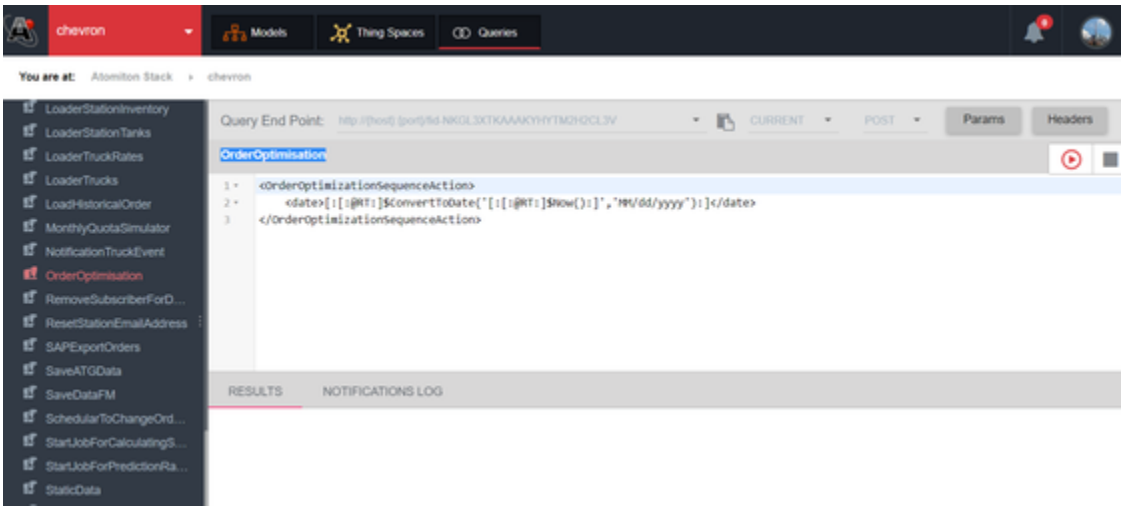
Schedule Creation : Order Optimisation

This algorithm is AStack's schedule algorithm which is executed every day at 2.30 PM. Before execution of this manual order from SAP get imported in syatem so , this algorithm will consider that manual orders.

Manual order's cutoff time is 2PM that's why it scheduled at 2.30 PM every day.

If anyone want to check whole flow in minimum time and don't want to wait till schedule execution, You can manualy trigger this algorithm using below query.

Execute "OrderOptimisation" query. This query will take 4 minute to execute. It identify stations , products and delivery dates.



Schedule Creation : Quantity and Schedule Optimisation

This algorithm is AStack's quantity and schedule optimisation algorithm which is triggered by planner after at around 2.45 PM (After completion of Order Optimisation algorithm). This will finalise quantity of product and assign trucks for orders and create optimum schedule. This will take 4 min to execution and execution is depend on number of second priority orders. If any hard constarint violation found algorithm drom second priority order and try to find out optimum schedule again and execution time get extended by 4 min. This will continue till there is no hard constarint violation or there is no second priority order left.

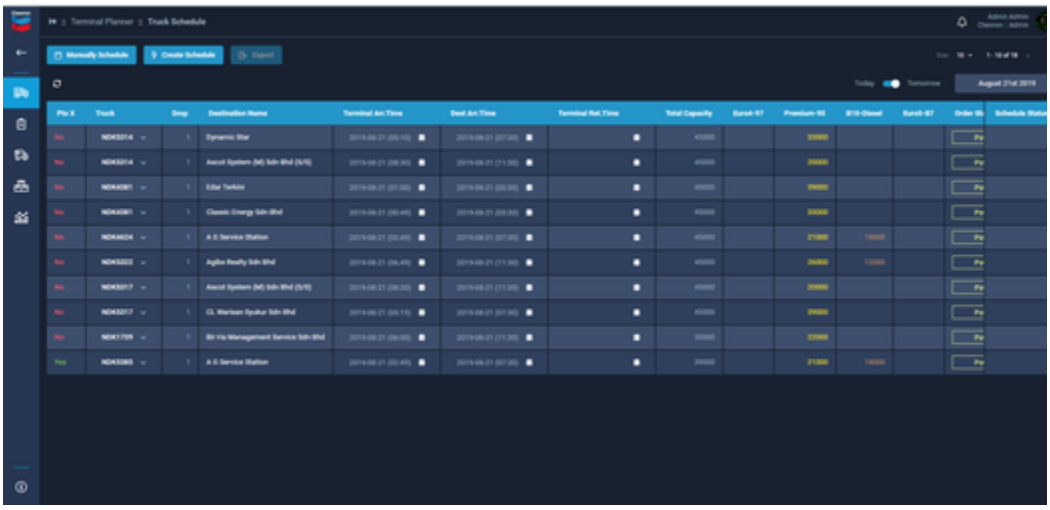
This get triggered from planner dashbord, schedule page.

Goto Truck Schedule page and check Tommorow schedule. You will see "Create Schedule " button. Click that button and wait for 15min (Time depend on constarint violation).

System is acception optimum schedule If and only If there is no hard constraint violation, otherwise system reject schedule and notification get

generated for hard constarint violation.

After 15 min check schedule for tommorow.

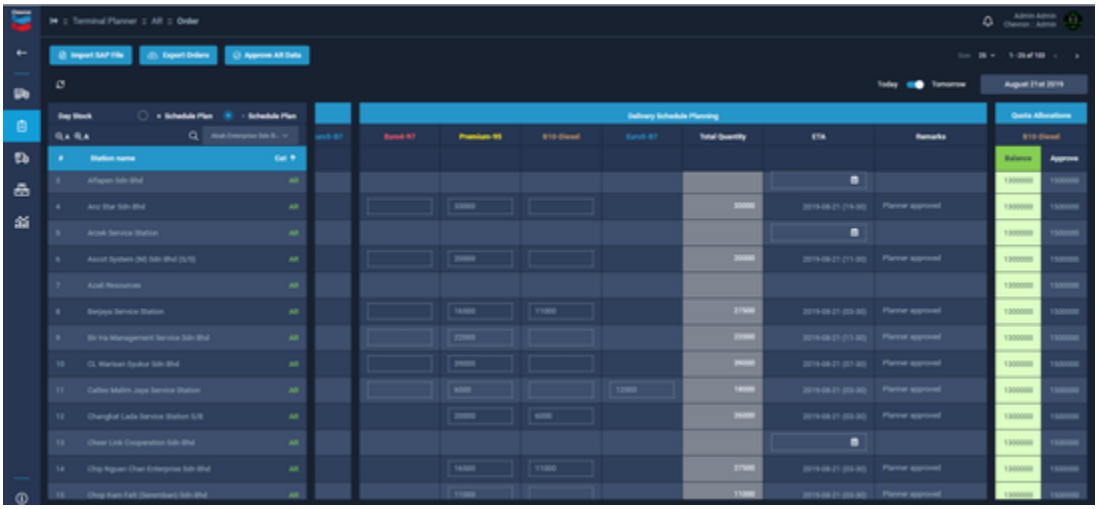


Orders generated by system are in "System Suggested" state by default.

Planner Approval

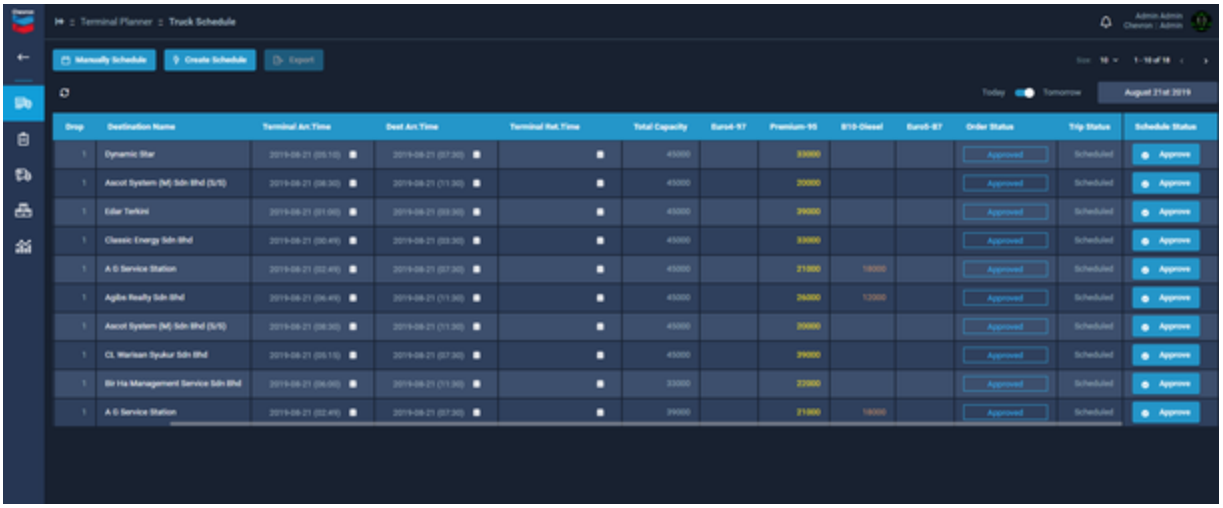
1. **Order Approval**

Planner has to verify orders generated from system from AR page. GoTo AR page, select Tommorow. After verifying and making changes in quantiry if needed planner has to approve AR data by clicking on "Approve AR Data" button. After planner's approval all order present on AR sheet are confirmed from planner and status get changed to "Potential" state. Then planner has to export these "Potential" state orders for SAP system by clicking on "Export Order" , excel file get downloaded. Planner manuay send that file to SAP team. SAP team creates that order and send list back with order status. Planner has to import that sheet and Order status are changed to "Approve" state or "Cancel" state on the basis of order status coming from SAP system.



2. **Schedule Approval**

Select Tommorow. Once order state changed to Approval state then Planner has to verify Truck Schedule and Approve all schedules. After approval of planner scheule status get changed to "PlannerApproved" and this planner approved schedule is ready for execution and only these trips are consider to auto status change on the basis of geolocation.


Terminal Planner :: Truck Schedule
Manually Schedule
Create Schedule
Export
Today
Tomorrow
August 21st 2019
Drop
Destination Name
Terminal Arr.Time
Dest Arr.Time
Terminal Rel.Time
Total Capacity
Euro4-97
Premium-95
B10-Diesel
Euro5-97
Order Status
Trip Status
Schedule Status
Dynamic Star
Ascot System (M) Sdn Bhd (S/S)
Edar Tarkini
Classic Energy Sdn Bhd
A G Service Station
Agibe Realty Sdn Bhd
Ascot System (M) Sdn Bhd (S/S)
CL Warisan Syukur Sdn Bhd
Bir Ha Management Service Sdn Bhd
A G Service Station
Approved
Scheduled
Approve