

User Guide For Data Creation

- System Initialisation
 - Open Atsack Console using below link and credentials
 - Flushing All Data
 - Init Static Data
 - Data Verification On Dashboard
- Daily Dynamic Data Creation
 - Sales Prediction & Inventory Prediction
 - Update Station Product Inventory
 - Truck Availability For Next Day
 - Schedule Creation : Order Optimisation
 - Schedule Creation : Quantity and Schedule Optimisation
 - Planner Approval

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 single day then follow below steps.

Open Atsack Console using below link and credentials

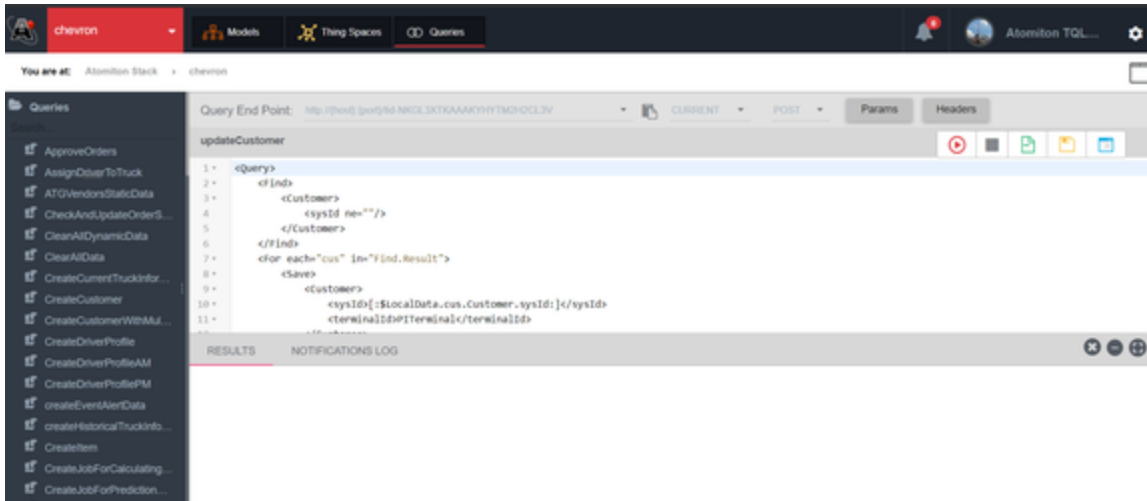
URL : <http://chevronstg.atomiton.com:8080/app/index.html#/login>

User Name : tqlengine@atomiton.com

Password : tq123



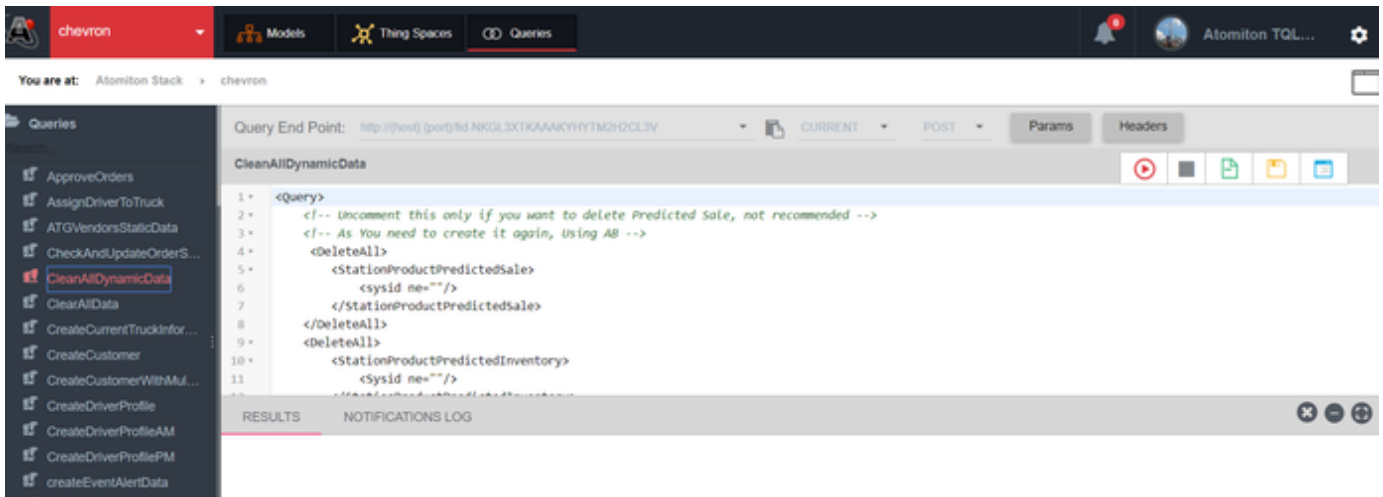
After Login go to "Query" tab



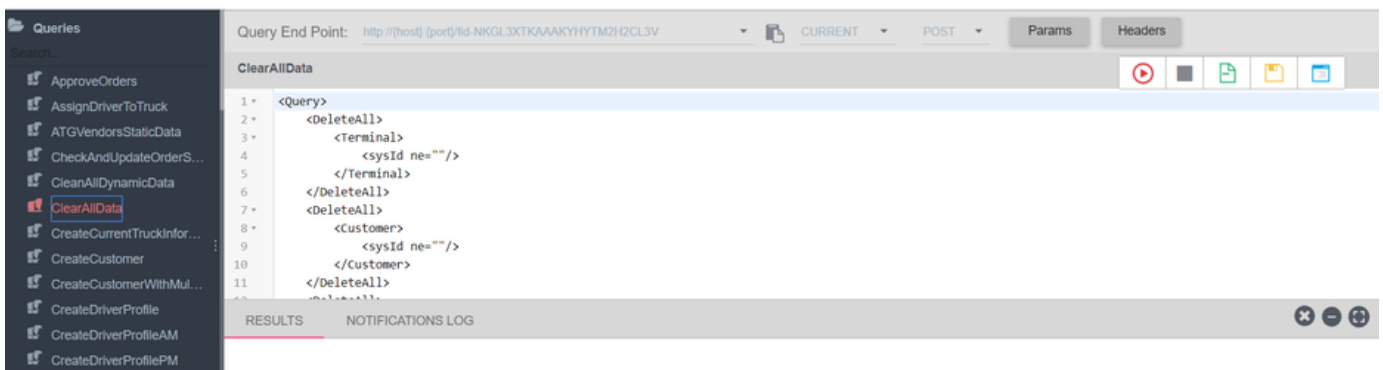
Left Panel shows list of queries. Scroll up and down to find query. Select query from list and press execute button.

Flushing All Data

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



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

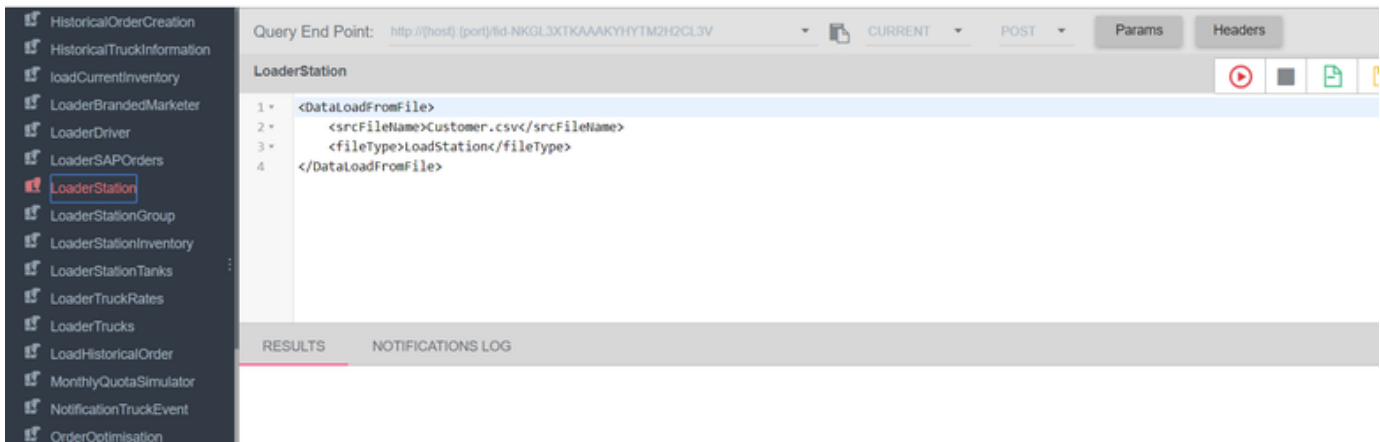


3. Execute "DeleteAllAccount" query. This query delete all user accounts excluding Admin.

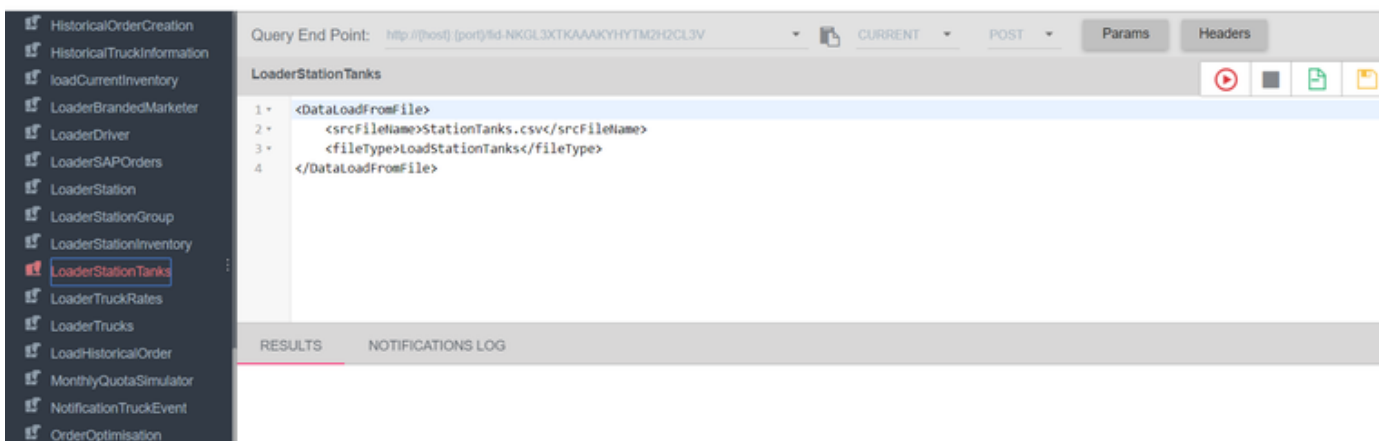


Init Static Data

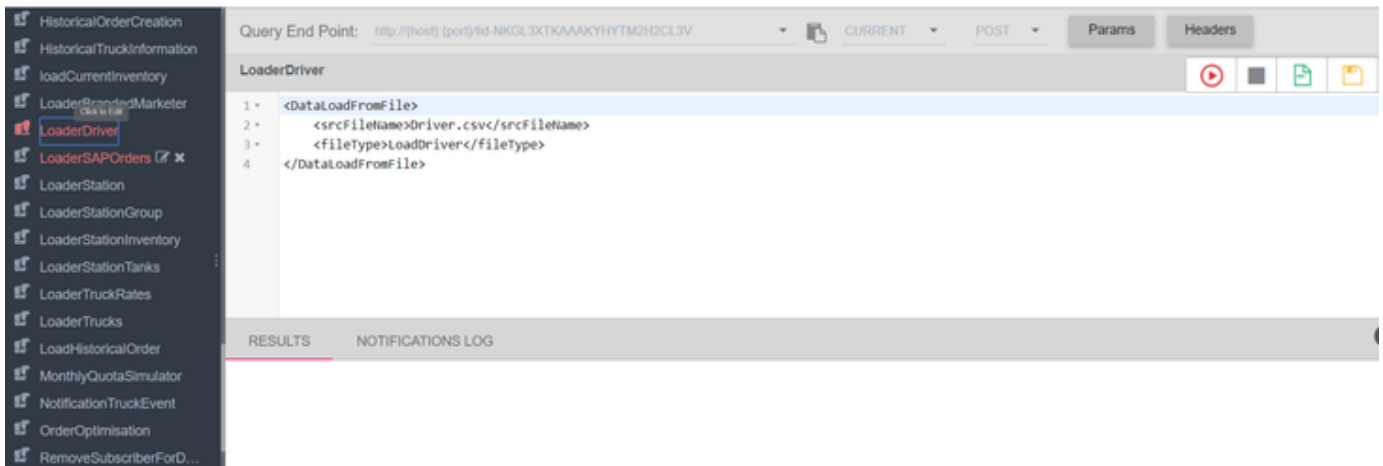
1. Execute "CreateTerminal" query and after completion execute "LoaderStation" query. After this query wait for minute. It's creating all customer and and stations insystem and account get created for every station.



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

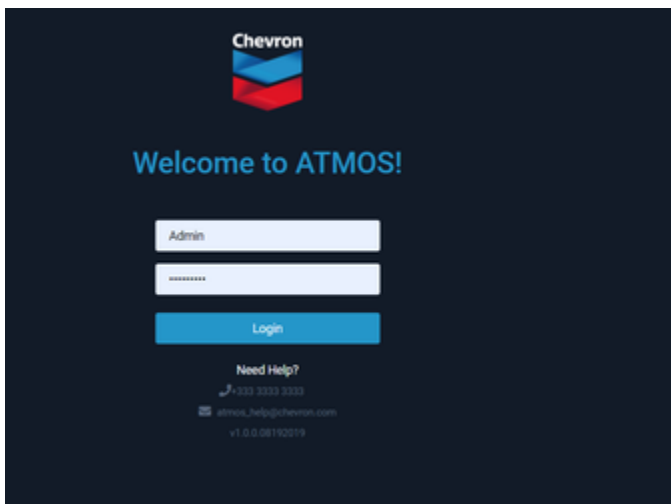
Data Verification On Dashboard

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

Admin, Customer, Pharmacist

#	User name ↑	Role	Email	Last Logged In	Create Date
1	ATMOS-200000	CustomerField	agiservicestation@gmail.com		2019-08-20 (12:04)
2	ATMOS-200001	CustomerField			2019-08-20 (12:04)
3	ATMOS-200002	CustomerField	femas2000@yahoo.com		2019-08-20 (12:04)
4	ATMOS-200003	CustomerField	caltenbu@gmail.com		2019-08-20 (12:04)
5	ATMOS-200004	CustomerField			2019-08-20 (12:04)
6	ATMOS-200005	CustomerField	perma9897@gmail.com		2019-08-20 (12:04)
7	ATMOS-200006	CustomerField	arzikservicestation@gmail.com		2019-08-20 (12:04)
8	ATMOS-200007	CustomerField	dinhamid54@gmail.com		2019-08-20 (12:04)
9	ATMOS-200008	CustomerField	acafresourcedrhd@yahoo.com		2019-08-20 (12:04)
10	ATMOS-200009	CustomerField	berjaysbidon@gmail.com		2019-08-20 (12:04)

[illegible]

Customer Management
Tree View
Map View
Admin Admin Chevron - Admin

	Details	Tank List	Inventory
User IV			
Custor			
Invent			
Fleet C			
Order I			
Quota			
Notific			
Planne			
Truck t			
Custor			
About			

Customer Name: A G Service Station

Station Name: A G Service Station

Short Name: A G

Street Address: Lot 1758-1760, KM 230, Kluang, 78000 Alor Gajah, Melaka.

Station Type: AR

Contact Number: 012-6358305, 017-6969106

Distance From Terminal: 164.0

Estimated Hours From Terminal: 3.67

Ship To: #130525

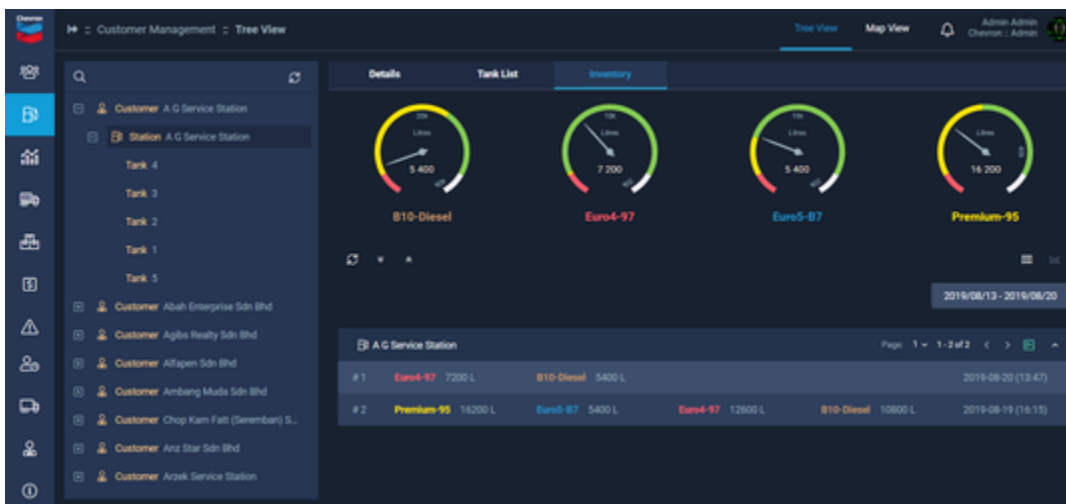
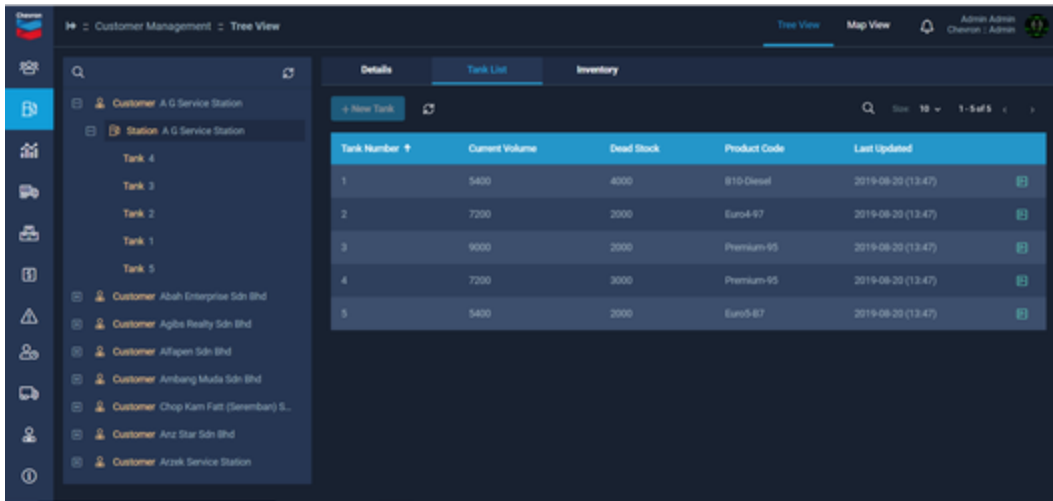
Truck Size: 45000

Upload Journey: Upload

Branded Marker: Chevron

Last Updated: 2019-06-20 (12:04)

Map | **Satellite**



2. Verify Truck company data.

Truck List

#	Truck Plate ↑	Total Capacity	Is Pto Supported	Safe Loading Pass Date	Stage
1	NET5492	45000	yes	2019-06-05 (21.36)	InService
2	NCB7825	45000	yes	2019-06-05 (21.36)	InService
3	NGK1597	22000	yes	2019-10-16 (21.36)	InService
4	NGK1739	33000	no	2019-09-09 (21.36)	InService
5	NGK1797	33000	yes	2019-09-09 (21.36)	InService
6	NGK1857	22000	yes	2019-10-16 (21.36)	InService
7	NGK2695	22000	yes	2019-11-28 (21.36)	InService
8	NGK3270	33000	no	2019-11-13 (21.36)	InService
9	NGK4381	45000	no	2019-10-11 (21.36)	InService
10	NGK4624	45000	no	2019-12-24 (21.36)	InService

Driver List

#	Company M	Chevron Driver M	Full Name ↑	Terminal Pass Expiry Date
1	KPD	432501025	Abdul Ghani Bin Mohamad	2021-02-21
2	KPD	432501022	Abdul Samad Bin Ghapali	2020-12-23
3	KPD	432501103	Aminul Saizwan Bin Ismail	2021-03-12
4	KPD	432501000	Che Shamsul Erwan Bin Che Mohd Yasin	2020-12-23
5	KPD	432501069	Faz Akram Bin Saib	2020-11-26
6	KPD	432501044	Harif B. Mohamed	2020-10-27
7	KPD	432501108	Hasri Bin Abd Rahman	2019-08-21
8	KPD	432501050	Ismail Bin Korowick	2020-11-26
9	KPD	432501074	Jamadi Bahaeddin	2020-12-23
10	KPD	432500672	Khalid Asmaad Bin Ibrahim	2020-12-20

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.

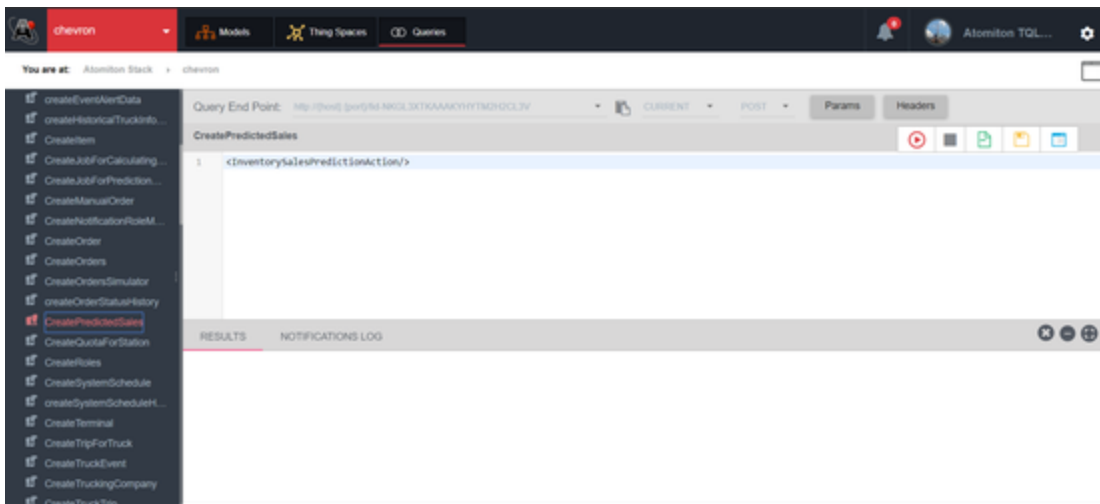
This is executed by system.

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

Frequency : Every Day mid night 12.00 AM

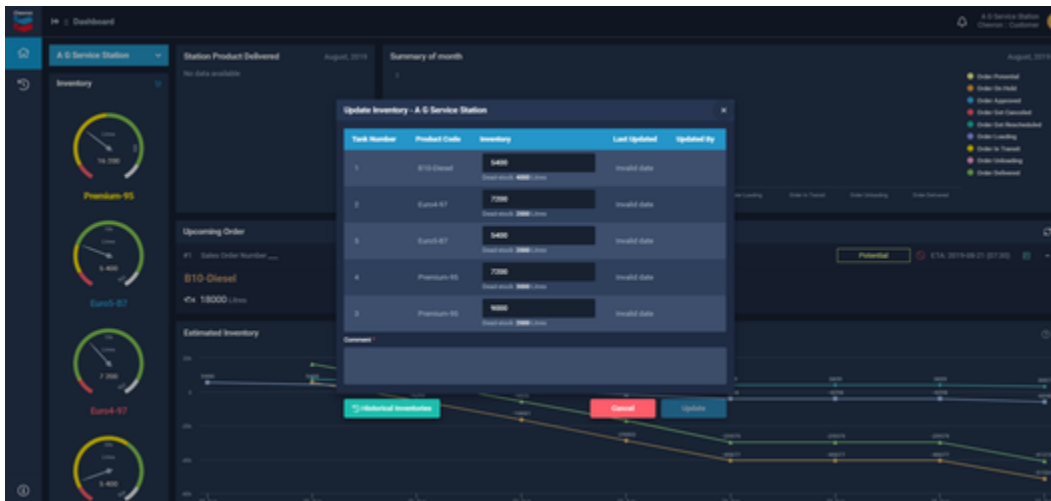
If any one want to check end-to-end flow and flush the data. No need to wait till mid night, execute below query and wait for 5min. It will get predicted sales for all stations product and populate data in the system.

Execute "CreatePredictedSales" query.



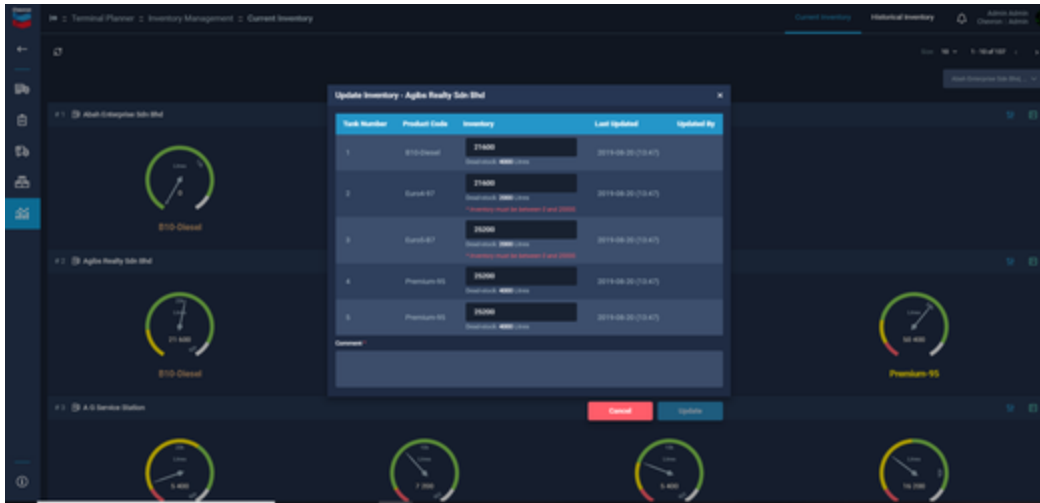
Update Station Product Inventory

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



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

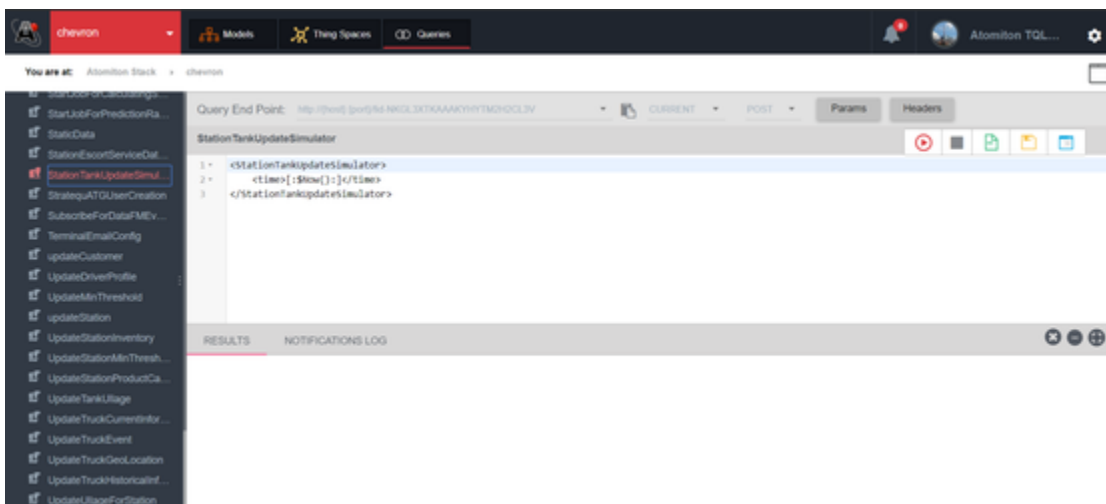




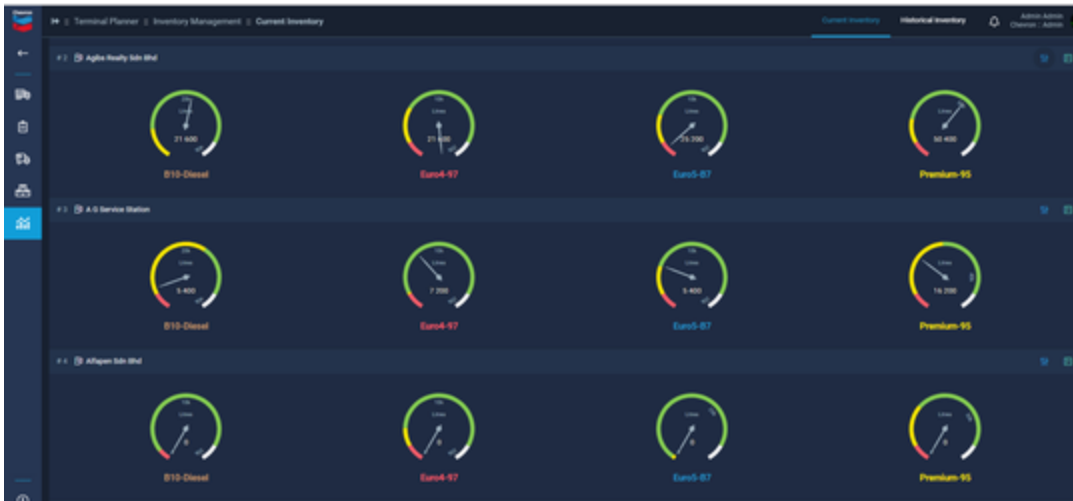
OR

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.



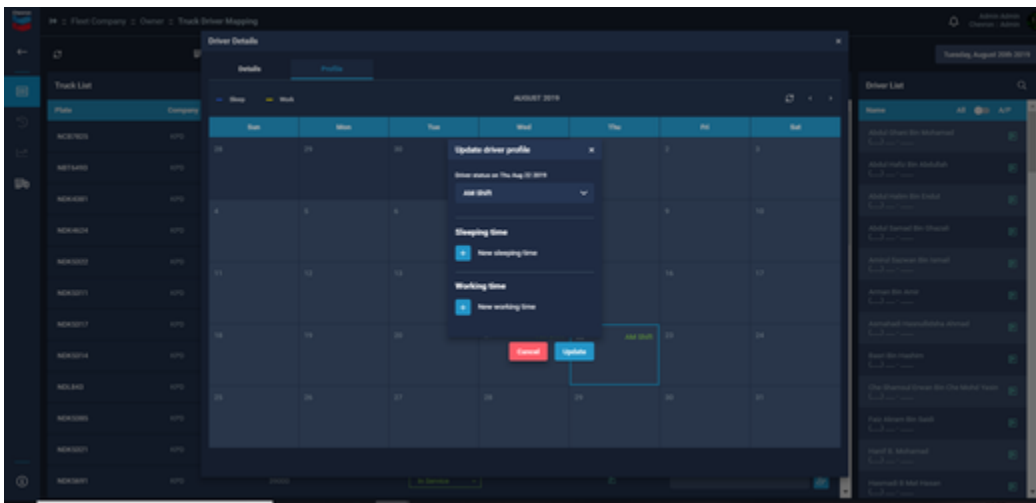
Verify data on dashbord. Check invetory management and AR sheet from planner dashboard. Updated inventory is reflected on dashboard or not



Truck Availability For Next Day

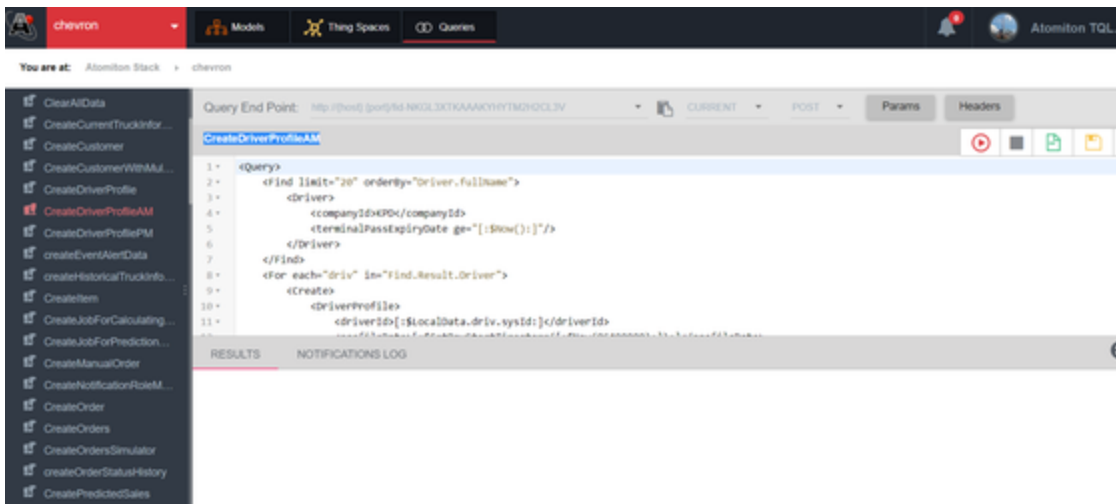
Login from truck operator/ owner dashboard and update driver profile for tomorrow. Select date of tomorrow or any future date for which you want to update driver profile.

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

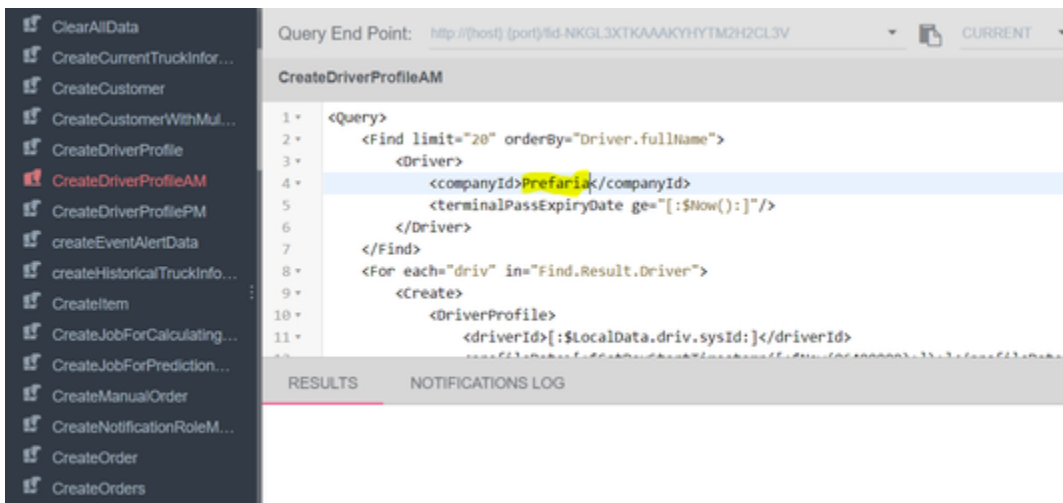


If user want to check end to end flow in minimum time there is simulated option to bulk update driver profiles.

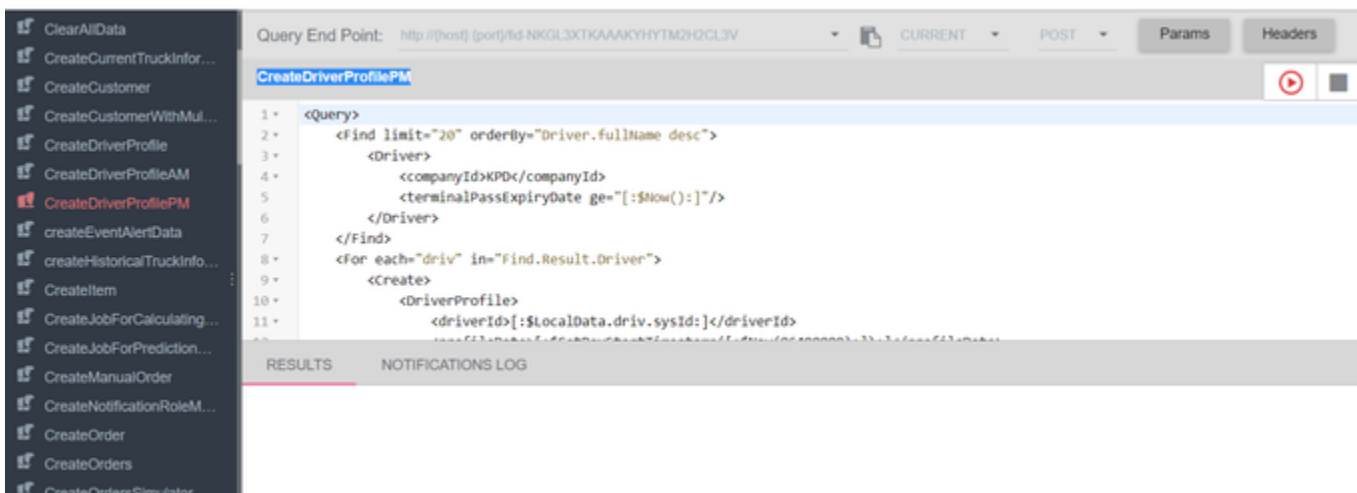
Execute "CreateDriverProfileAM" query, It's create driver profile for 20 drivers and assign AM shift to them for KPD company.



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.

Truck	Company	Capacity (Liters)	Stage	Drivers
NOR1025	AFD	40000	In Service	Fayz Akram Bin Isah Muhd Khairul Bin Ahmad
NOR1445	AFD	40000	In Service	Ismael Bin Karam Nar Azmi Bin Sardin
NOR4381	AFD	40000	In Service	Khaiy Ahmad Bin Baghas Nar Khair Muhammad Tamin
NOR4624	AFD	40000	In Service	Ahmad Baharudin Baharudin Bin Yusoff
NOR5322	AFD	40000	In Service	Saharun Bin Lutanah
NOR5311	AFD	40000	In Service	Muhd Jafar Bin Ismail
NOR5317	AFD	40000	In Service	Muhammad Aswan B. Asan Pezul Bin Mohd
NOR5314	AFD	40000	In Service	Muhd Bin Zakaria

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 system 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 manually trigger this algorithm using below query.

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

Query End Point: http://host:8080/stack/NKGL3XTKAAKYYHYTMHGCL3V

Method: POST

Query:

```

1 <orderOptimizationSequenceAction>
2 <date>[[:@RT:]]$convertToDate([[:@RT:]]$now())], "MM/dd/yyyy")</date>
3 </OrderOptimizationSequenceAction>

```

Results: [Empty]

Notifications Log: [Empty]

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.

Truck	Stop	Description Name	Terminal Arr Time	Depart Arr Time	Terminal Ret Time	Total Capacity	Export QT	Premium QT	\$10-Closed	Export QT	Order ID	Schedule Status
NW3374	1	Dynasty Star	2019-08-21 (20:15)	2019-08-21 (20:30)		40000		30000				Potential
NW3374	1	Accord System (M) Sub-Bld (2/15)	2019-08-21 (20:30)	2019-08-21 (21:30)		40000		30000				Potential
NW3381	1	Eden Turkey	2019-08-21 (20:30)	2019-08-21 (20:30)		40000		30000				Potential
NW3381	1	Chenck Energy Sub-Bld	2019-08-21 (20:45)	2019-08-21 (20:45)		40000		30000				Potential
NW3324	1	A & Service Station	2019-08-21 (20:45)	2019-08-21 (20:30)		40000		30000	10000			Potential
NW3323	1	Agiles Ready Sub-Bld	2019-08-21 (20:45)	2019-08-21 (21:30)		40000		30000	10000			Potential
NW3377	1	Accord System (M) Sub-Bld (2/15)	2019-08-21 (20:30)	2019-08-21 (21:30)		40000		30000				Potential
NW3377	1	CL Workshop Spdun Sub-Bld	2019-08-21 (20:15)	2019-08-21 (20:30)		40000		30000				Potential
NW3738	1	Br Va Management Service Sub-Bld	2019-08-21 (20:30)	2019-08-21 (21:30)		30000		30000				Potential
NW3388	1	A & Service Station	2019-08-21 (20:45)	2019-08-21 (20:30)		30000		30000	10000			Potential

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 quantity 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.

Station Name	Export QT	Premium QT	\$10-Closed	Export QT	Total Quantity	\$10	Remarks	Status
Adipen Sub-Bld								Potential
Any Star Sub-Bld		30000			30000	2019-08-21 (21:30)	Planner approved	Potential
Accord Service Station								Potential
Accord System (M) Sub-Bld (2/15)		30000			30000	2019-08-21 (21:30)	Planner approved	Potential
Accel Resources								Potential
Bajaj Service Station		10000	10000		20000	2019-08-21 (20:30)	Planner approved	Potential
Br Va Management Service Sub-Bld		20000			20000	2019-08-21 (21:30)	Planner approved	Potential
CL Workshop Spdun Sub-Bld		30000			30000	2019-08-21 (20:30)	Planner approved	Potential
Calson Motion Jap Service Station		5000		10000	15000	2019-08-21 (20:30)	Planner approved	Potential
Changshu Lida Service Station S/B		20000	5000		25000	2019-08-21 (20:30)	Planner approved	Potential
Chen Link Corporation Sub-Bld								Potential
Chy Reguan Chen Enterprise Sub-Bld		10000	10000		20000	2019-08-21 (20:30)	Planner approved	Potential
Chy Reguan Chen Enterprise Sub-Bld		10000			10000	2019-08-21 (20:30)	Planner approved	Potential

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.

Home

Terminal Planner > Truck Schedule

Admin Admin
Chamran Admin

←

Manually Schedule

Create Schedule

Export

10

Today

Tomorrow

August 21st 2019

1

2

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Stop	Destination Name	Terminal Arr Time	Dest Arr Time	Terminal Ret Time	Total Capacity	Barack RT	Premium RT	B19 Class	Barack RT	Order Status	Trig Status	Schedule Status
1	Dynamic Star	2019-08-21 (05:10) ■	2019-08-21 (07:30) ■	■	40000		20000			Approved	Scheduled	Approve
1	Ascot System (M) Sdn Bhd (5/5)	2019-08-21 (08:30) ■	2019-08-21 (11:30) ■	■	40000		20000			Approved	Scheduled	Approve
1	Edar Torkat	2019-08-21 (01:00) ■	2019-08-21 (02:30) ■	■	40000		20000			Approved	Scheduled	Approve
1	Classet Energy Sdn Bhd	2019-08-21 (00:40) ■	2019-08-21 (03:30) ■	■	40000		30000			Approved	Scheduled	Approve
1	A O Service Station	2019-08-21 (02:40) ■	2019-08-21 (07:30) ■	■	40000		21000	18000		Approved	Scheduled	Approve
1	Aglio Realty Sdn Bhd	2019-08-21 (06:40) ■	2019-08-21 (11:30) ■	■	40000		26000	12000		Approved	Scheduled	Approve
1	Ascot System (M) Sdn Bhd (5/5)	2019-08-21 (08:30) ■	2019-08-21 (11:30) ■	■	40000		20000			Approved	Scheduled	Approve
1	CL Workson Syukur Sdn Bhd	2019-08-21 (05:10) ■	2019-08-21 (07:30) ■	■	40000		20000			Approved	Scheduled	Approve
1	Bt Ha Management Service Sdn Bhd	2019-08-21 (06:00) ■	2019-08-21 (11:30) ■	■	30000		22000			Approved	Scheduled	Approve
1	A O Service Station	2019-08-21 (02:40) ■	2019-08-21 (07:30) ■	■	39000		21000	18000		Approved	Scheduled	Approve