Freight Company Analysis

Problem statement:

As an analyst of a port inspection team at a freight company, you've been asked to perform analyses using VIEWS.

Objective:

To analyze the transportation of orders of various quantities across different ports.

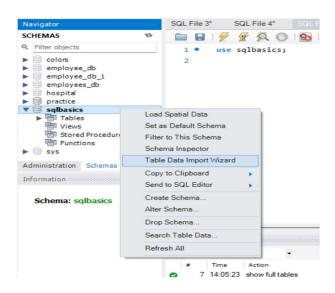
 -- create a database named sqlbasics: create database sqlbasics;

2. -- select database:

use sqlbasics;

- 3. -- Upload the FreightRates.csv dataset to the lab
 - -- Import freightRates.csv into the database as a table

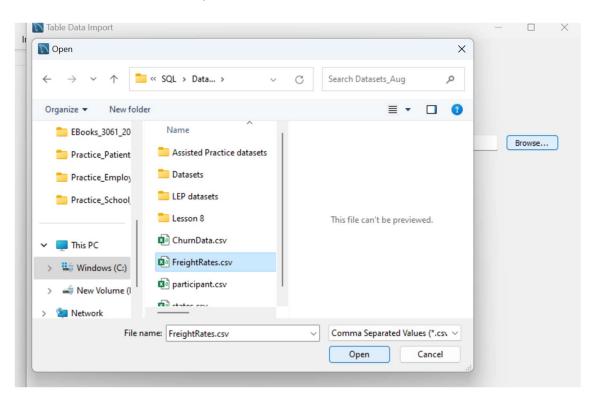
Right click on schema:sqlbasics -> select 'table data import wizard'



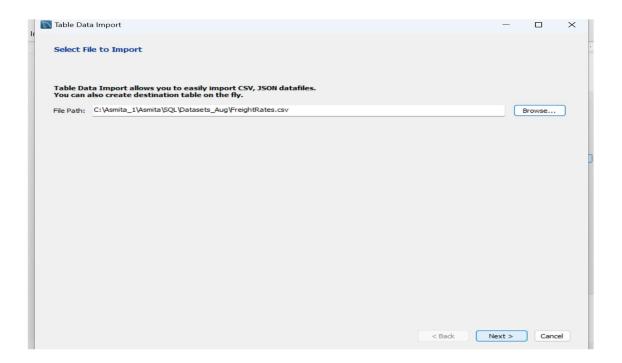
Browse or enter the path of the file to import



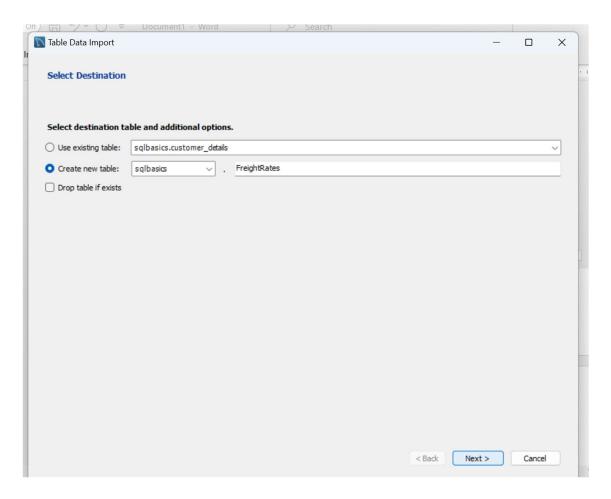
Select the file and then click 'Open'.



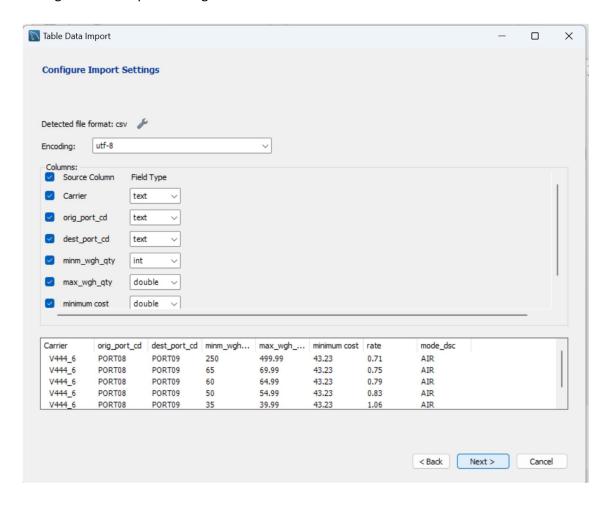
Click on the 'Next' button



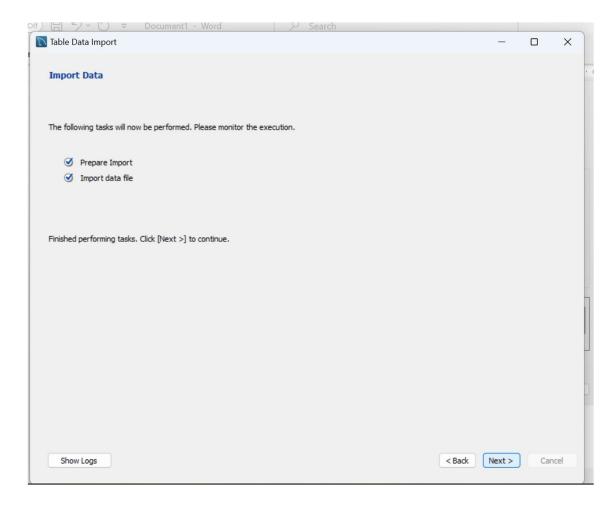
Select the destination for the table -> click 'Next'



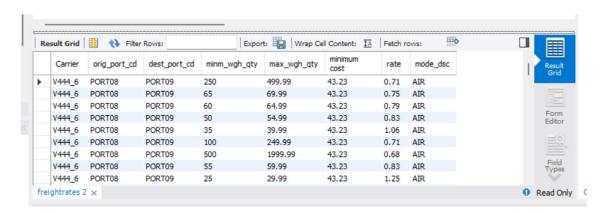
Configure some import settings -> click 'Next'.



Data has been imported -> click 'Next' -> click 'Finish'.

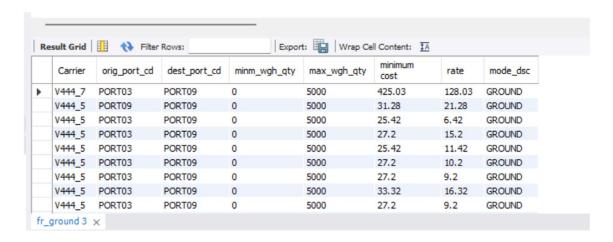


select * from freightrates;

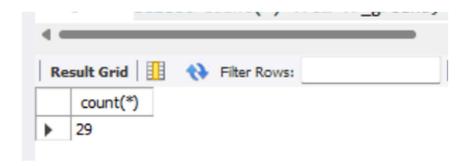


4. -- Create a VIEW and name it FR_GROUND and use it to display the record of the FreightRates table for the orders transported via GROUND:

create view fr_ground as select * from freightrates where mode_dsc = 'ground'; select * from fr_ground;

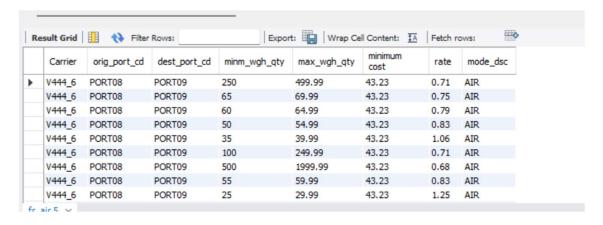


5. -- count the records of fr_ground: select count(*) from fr_ground;

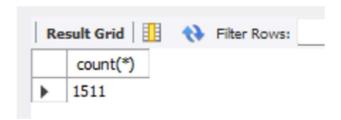


6. -- Create a VIEW and name it FR_GROUND and use it to display the record of the FreightRates table for the orders transported via Air:

create view fr_air as select * from freightrates where mode_dsc = 'air'; select * from fr_air;

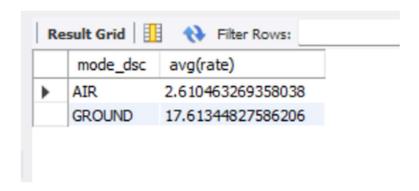


7. -- count the records of fr_air: select count(*) from fr_air;



8. -- Create a VIEW and name it FR_V1 with mode_dsc and the average rate for each type of value in the mode_dsc column:

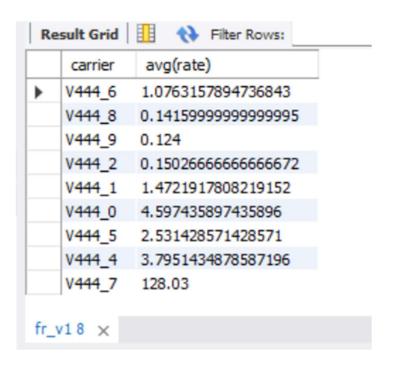
create view fr_v1 as select mode_dsc, avg(rate) from freightrates group by
mode_dsc;
select * from fr_v1;



9. -- Alter the VIEW FR_V1 by replacing the column mode_dsc with carrier:

create or replace view fr_v1 as select carrier, avg(rate) from freightrates group by carrier;

select * from fr_v1;

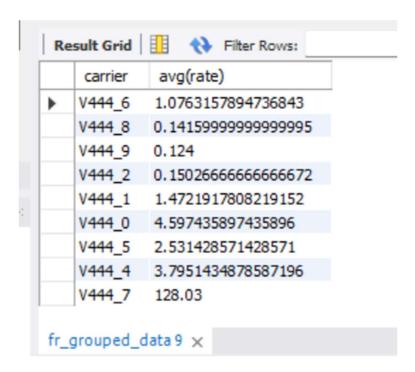


10. -- Rename the VIEW FR_V1 as FR_GROUPED_DATA:

rename table fr_v1 to fr_grouped_data;

29 14:50:28 rename table fr_v1 to fr_grouped_data 0 row(s) affected 0.015 sec

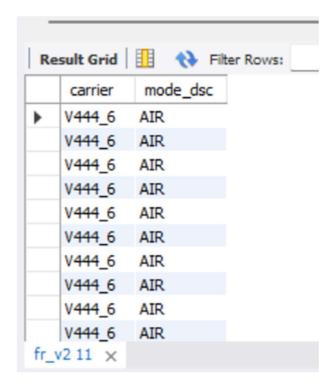
select * from fr_grouped_data;



11. -- Create a VIEW with the carrier and mode_dsc columns using WITH CHECK option to make sure that mode_dsc accepts no entry other than AIR or GROUND:

create view fr_v2 as select carrier, mode_dsc from freightrates where mode_dsc in ('air','ground') with check option;

select * from fr_v2;



insert into fr_v2 (carrier, mode_dsc) values ('V444_9','water');

36 14:58:43 insert into fr_v2 (camer, mode_dsc) values (V444_9', water') Error Code: 1369. CHECK OPTION failed 'sqlbasics.fr_v2'