/\* Samuel Greenlee \*/

/\* SQL Server \*/

/\* Use Statement for SamsCarsSGG Database \*/

Use SamsCarsSGG;

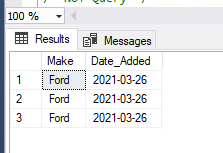
/\* AND Query \*/

/\* What are the cars who were added on 2021-03-26, and were Fords? \*/

Select Make, Date\_Added

From Car

Where Make = 'Ford' AND Date\_Added = '2021-03-26';



/\* OR Query \*/

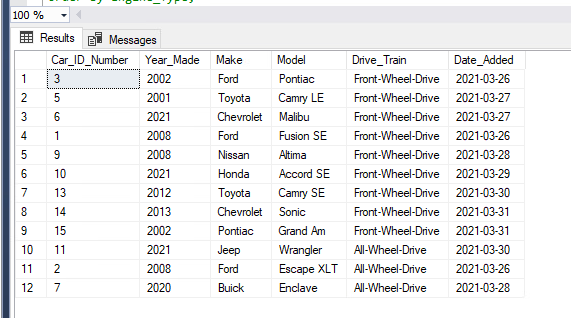
/\* What are the listings of cars that either contain Front-Wheel-Drive drive trains, or All-Wheel-Drive drive train? \*/

Select \*

From Car

Where Drive\_Train = 'Front-Wheel-Drive' OR Drive\_Train = 'All-Wheel-Drive'

Order by Drive\_Train Desc;



/\* NOT Query \*/

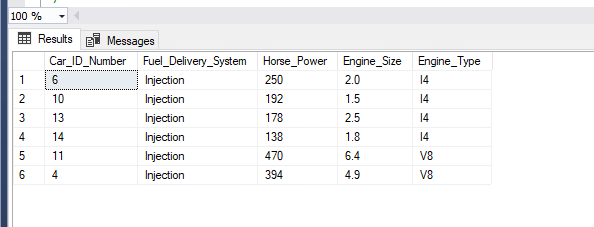
/\* What are the listings of engines that are not of the engine type V6? \*/

Select \*

From Engine

Where Not Engine\_Type = 'V6'

Order by Engine\_Type;



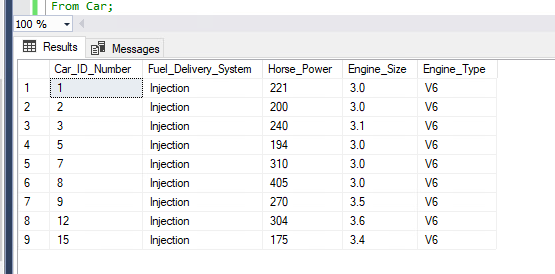
/\* BETWEEN, AND Query \*/

/\* What are the listings of engines that are between 3.0 and 4.0 in engine size? \*/

Select \*

From Engine

Where Engine\_Size Between 3.0 And 4.0;

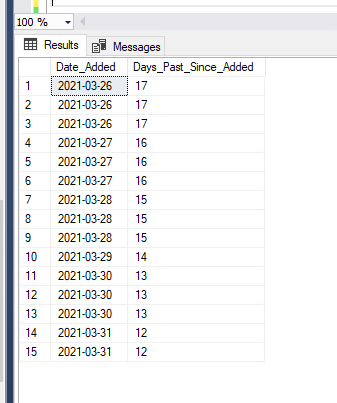


/\* Calculated Field Query\*/

/\* How long has past since the addition of each car? \*/

Select Date\_Added, DATEDIFF(Day, Date\_Added, GetDate()) As 'Days\_Past\_Since\_Added'

From Car;



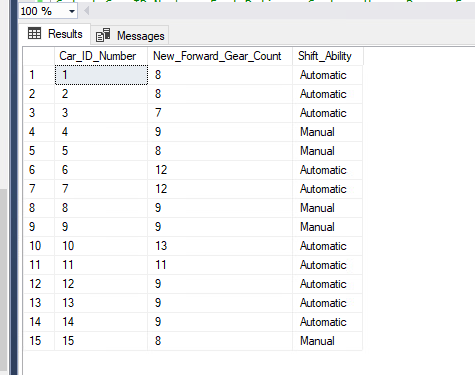
/\* Aggregate Function, Group By Query \*/

/\* What would my forward gear count be if I want to add three more to each transmission? \*/

Select Car\_ID\_Number, SUM(Forward\_Gear\_Count + 3) as 'New\_Forward\_Gear\_Count', Shift\_Ability

From Transmission

Group By Car\_ID\_Number, Shift\_Ability;



/\* Aggregate Function, Group By and Having Query\*/

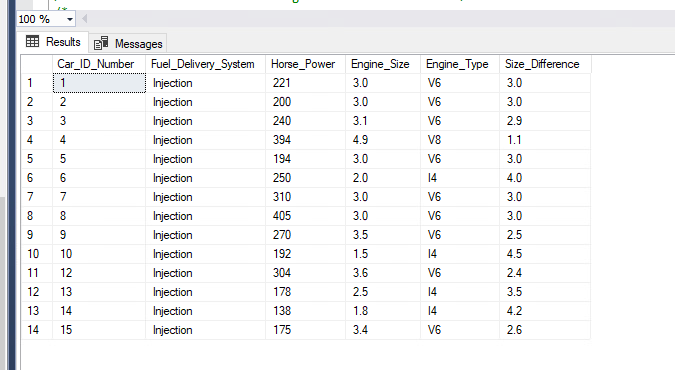
/\* How much bigger would each engine listing be if it was under the engine size of 6.0?\*/

Select Car\_ID\_Number, Fuel\_Delivery\_System, Horse\_Power, Engine\_Size, Engine\_Type, SUM(6.0 - Engine\_Size) as 'Size\_Difference'

From Engine

Group By Car\_ID\_Number, Fuel\_Delivery\_System, Horse\_Power, Engine\_Size, Engine\_Type

Having Engine\_Size < 6.0;

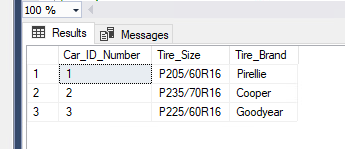


/\* Top Values Query \*/

/\* What are the first three listings of the tires table? \*/

Select Top 3 \*

From Tires;



/\* Inner Join Query \*/

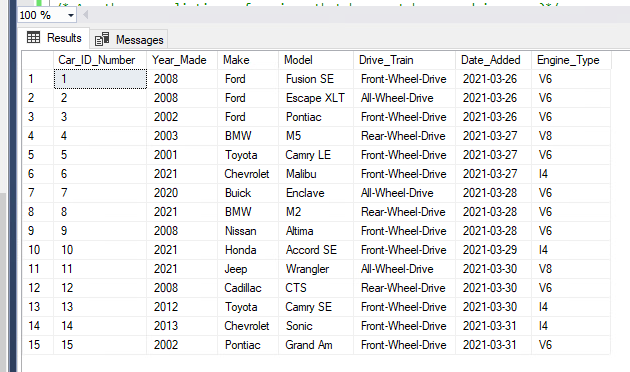
/\* What car goes with what engine type?\*/

Select c.Car\_ID\_Number, Year\_Made, Make, Model, Drive\_Train, Date\_Added, Engine\_Type

From Car as c

Inner Join Engine as e

On c.Car\_ID\_Number = e.Car\_ID\_Number;



/\* Outer Join, AND, WHERE Query \*/

/\* Are there any listings of engines that have not been used in a car?\*/

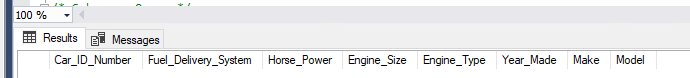
Select e.Car\_ID\_Number, Fuel\_Delivery\_System, Horse\_Power, Engine\_Size, Engine\_Type, Year\_Made, Make, Model

From Engine as e

Left Outer Join Car as c

On e.Car\_ID\_Number = c.Car\_ID\_Number

Where Year\_Made = Null AND Make = Null AND Model = Null;



/\* Subquery Query \*/

/\* What are the car listings for cars who have the fuel tank capacity of 17.5 gallons? \*/

Select \*

From Car

Where Car\_ID\_Number IN (

Select Car\_ID\_Number

From Fuel

Where Fuel\_Tank\_Capacity = '17.5 gallons'

);

