DBT Problem Solving - Set - 018

***Consider the following relations***

***types {typeID, name}***

***brand {brandID, name}***

***type\_brand {ID, typeID, brandID}***

***models {modelID, typeBrandID, name}***

***types {typeID, name}***

***colorCode {ID, color}***

***modelColors {ID, modelID, colorID}***

**Given the above relations solve the following queries.**

1. Write a query to display all car type name and its brand name.
2. Write a query to display all brand name and its car model names.
3. Write a query to display all car names and in which color it is available.
4. Write a query to display all cars which are available in 'Liquid Yellow' color.
5. Write a query to display all models of 'Volvo' brand.
6. Write a query to display to count of car brands.
7. Write a query to display the brand name and total count of models for every brand.
8. Write a query to display type-name-wise, brand-name-wise count of all car models.
9. Write a query to display all SUV car models.
10. Write a query to display type-name-wise count of car.
11. Write a query to display all car models available in 'Mustard' color.
12. Write a query to display how many cars are available in 'Orange' color.
13. Write q query to display color-wise count of cars.
14. Write a query to display brand name and car model name for the brand 'Land' and type-name is 'convertible'.
15. Write a query to display all the cars whose car model name starts with the letter ‘A’.

Answers Set – 018:

1. **select types.name, brand.name from types, brand, type\_brand where types.typeid = type\_brand.typeid and brand.brandid = type\_brand.brandid;**
2. **select brand.name, models.name from brand, type\_brand, models where brand.brandid = type\_brand.brandid and type\_brand.id = models.type\_brandid;**
3. **select models.name, colorcode.name from models, colorcode, modelcolors where models.modelid = modelcolors.modelid and modelcolors.colorid = colorcode.id;**
4. **select models.name, colorcode.name from models, colorcode, modelcolors where models.modelid = modelcolors.modelid and modelcolors.colorid = colorcode.id and colorcode.name = 'Liquid Yellow';**
5. **select models.name from models, types, brand, type\_brand where types.typeid = type\_brand.typeid and brand.brandid = type\_brand.brandid and models.type\_brandid = type\_brand.id and brand.name = 'Volvo';**
6. **select count(\*) from brand;**
7. **select brand.name, count(\*) from brand, type\_brand, models where brand.brandid = type\_brand.brandid and type\_brand.id = models.type\_brandid group by brand.name;**
8. **select types.name, brand.name, count(\*) from types, brand, type\_brand, models where brand.brandid = type\_brand.brandid and type\_brand.id = models.type\_brandid and types.typeid = type\_brand.typeid group by types.name, brand.name order by types.name, brand.name;**
9. **select types.name, models.name from types, models, type\_brand where types.typeid = type\_brand.typeid and models.type\_brandid = type\_brand.id and types.name='SUV';**
10. **select types.name, count(\*) from types, type\_brand, models where types.typeid = type\_brand.typeid and type\_brand.id = models.type\_brandid group by types.name;**
11. **select models.name from models, colorcode, modelcolors where models.modelid = modelcolors.modelid and colorcode.id = modelcolors.colorid and colorcode.name = 'Mustard';**
12. **select count(models.name) from models, colorcode, modelcolors where models.modelid = modelcolors.modelid and colorcode.id = modelcolors.colorid and colorcode.name = 'Orange';**
13. **select colorcode.name, count(\*) from models, colorcode, modelcolors where models.modelid = modelcolors.modelid and colorcode.id = modelcolors.colorid group by colorcode.name;**
14. **select brand.name, models.name from types, models, type\_brand, brand where types.typeid = type\_brand.typeid and brand.brandid = type\_brand.brandid and models.type\_brandid = type\_brand.id and types.name = 'convertible' and brand.name = 'Land';**
15. **select \* from models where name like 'A%';**