DBT Problem Solving - Set - 019

Feb19/ DBT-PS/ 019

Database Technologies

Diploma in Advance Computing

February 2019

**Types Table: (for Cars)**

|  |  |
| --- | --- |
| **typeId** | **name** |
| 1 | SUV |
| 2 | convertible |
| 3 | coupe |
| 4 | hatchback |
| 5 | sedan |
| 6 | Pick-up |

**Brands Table:**

|  |  |
| --- | --- |
| **brandid** | **name** |
| 1 | Abarth |
| 2 | Alfa |
| 3 | Asia |
| 4 | Aston |
| 5 | Audi |
| 6 | Austin |
| 7 | Autobianchi |
| 8 | Bentley |
| 9 | BMW |
| 10 | Bugatti |
| 11 | Buick |
| 12 | Cadillac |
| 13 | Carver |
| 14 | Chevrolet |
| 15 | Chrysler |
| 16 | Citroen |
| 17 | Corvette |
| 18 | Dacia |
| 19 | Daewoo |
| 20 | Daihatsu |
| 21 | Daimler |
| 22 | Datsun |
| 23 | Dodge |
| 24 | Donkervoort |
| 25 | DS |
| 26 | Ferrari |
| 27 | Fiat |
| 28 | Fisker |
| 29 | Ford |
| 30 | FSO |

**Type\_Brand Table:**

|  |  |  |
| --- | --- | --- |
| **Id** | **typeid** | **brandid** |
| 1 | 1 | 2 |
| 2 | 1 | 5 |
| 3 | 1 | 12 |
| 4 | 1 | 52 |
| 5 | 1 | 58 |
| 6 | 1 | 64 |
| 7 | 1 | 75 |
| 8 | 1 | 88 |
| 9 | 1 | 5 |
| 10 | 1 | 29 |
| 11 | 1 | 29 |
| 12 | 1 | 34 |
| 13 | 1 | 40 |
| 14 | 1 | 40 |
| 15 | 1 | 44 |
| 16 | 1 | 50 |
| 17 | 1 | 55 |
| 18 | 1 | 59 |
| 19 | 1 | 64 |
| 20 | 1 | 65 |
| 21 | 1 | 74 |
| 22 | 1 | 78 |
| 23 | 1 | 80 |
| 24 | 1 | 82 |
| 25 | 1 | 84 |
| 26 | 1 | 84 |
| 27 | 1 | 87 |
| 28 | 2 | 5 |
| 29 | 2 | 5 |
| 30 | 2 | 9 |

**Models Table:**

|  |  |  |
| --- | --- | --- |
| **modelid** | **type\_brandid** | **name** |
| 1 | 1 | Alfa Romeo Stelvio |
| 2 | 2 | Audi Q5 |
| 3 | 3 | Cadillac XT5 |
| 4 | 4 | Mazda CX-5 |
| 5 | 5 | Mini Countryman |
| 6 | 6 | Opel Crossland X |
| 7 | 7 | Skoda Kodiaq |
| 8 | 8 | Volvo XC60 |
| 9 | 9 | Audi Q2 |
| 10 | 10 | Ford Edge |
| 11 | 11 | Ford Kuga |
| 12 | 12 | Hyundai Santa Fe |
| 13 | 13 | Kia Niro |
| 14 | 14 | Kia Sportage |
| 15 | 15 | Land Rover Discovery |
| 16 | 16 | Maserati Levante |
| 17 | 17 | Mercedes-Benz GLC-class Coupe |
| 18 | 18 | Mitsubishi ASX |
| 19 | 19 | Opel Mokka X |
| 20 | 20 | Peugeot 2008 |
| 21 | 21 | Seat Ateca |
| 22 | 22 | Ssangyong XLV |
| 23 | 23 | Suzuki S-Cross |
| 24 | 24 | Tesla Model X |
| 25 | 25 | Toyota C-HR |
| 26 | 26 | Toyota RAV4 |
| 27 | 27 | Volkswagen Tiguan |
| 28 | 28 | Audi A5 Cabriolet |
| 29 | 29 | Audi S5 Cabriolet |
| 30 | 30 | BMW 4-series Cabrio |

**ColorCode Table:**

|  |  |
| --- | --- |
| **id** | **color** |
| 1 | Lizstick Red |
| 2 | Mango Orange |
| 3 | Verdoro Green |
| 4 | Liquid Yellow |
| 5 | Beluga Brown |
| 6 | Silver |
| 7 | Black |
| 8 | White |
| 9 | Nardo Grey |
| 10 | Light Brown |
| 11 | Orange |
| 12 | Mustard |
| 13 | Sub-lime |
| 14 | Silver Birch |
| 15 | Guards Red |
| 16 | Rosso Corsa |
| 17 | Norfolk Mustard |
| 18 | Ultimate Green |
| 19 | Estoril Blue |
| 20 | Pink Kong |

**ModelColors Table:**

|  |  |  |  |
| --- | --- | --- | --- |
| **id** | **modelid** | **colorid** | **price** |
| 1 | 1 | 10 | 2816495 |
| 2 | 2 | 12 | 2920465 |
| 3 | 3 | 1 | 2929342 |
| 4 | 4 | 20 | 2052078 |
| 5 | 5 | 4 | 4380720 |
| 6 | 6 | 15 | 3545238 |
| 7 | 7 | 7 | 4122183 |
| 8 | 8 | 9 | 3396633 |
| 9 | 9 | 12 | 1644036 |
| 10 | 10 | 19 | 1985888 |
| 11 | 11 | 10 | 1888229 |
| 12 | 12 | 4 | 2859248 |
| 13 | 13 | 10 | 4128345 |
| 14 | 14 | 17 | 2793808 |
| 15 | 15 | 9 | 2697359 |
| 16 | 16 | 16 | 3935631 |
| 17 | 17 | 1 | 2986183 |
| 18 | 18 | 8 | 3220861 |
| 19 | 19 | 13 | 4645618 |
| 20 | 20 | 10 | 2058161 |
| 21 | 21 | 1 | 3990364 |
| 22 | 22 | 14 | 3456118 |
| 23 | 23 | 16 | 1370451 |
| 24 | 24 | 10 | 3856321 |
| 25 | 25 | 8 | 4703081 |
| 26 | 26 | 16 | 3210567 |
| 27 | 27 | 17 | 3416672 |
| 28 | 28 | 16 | 1493867 |
| 29 | 29 | 18 | 3357181 |
| 30 | 30 | 20 | 1937501 |
| 31 | 31 | 8 | 4849643 |
| 32 | 32 | 14 | 3192591 |
| 33 | 33 | 14 | 4774049 |
| 34 | 34 | 18 | 4564933 |
| 35 | 35 | 4 | 1050780 |

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

1. **Write a query to find the car brand names and the model name for every brand?**

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1. **Write a query to display the model name and in which color they are comming?**

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1. **Write a query to display the model name for the category SUV?**

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1. **Write a query to display the count of models for the category 'SUV' types.**

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1. **Write a query to find total count of car models are comming for the 'Light Brown'.**

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1. **Write a query to display all model name whose model name starts with the letter 'M'.**

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1. **Write a query to display the model name and in how many colors they are comming.**

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1. **Write the query to find the higest pirce of the car.**

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1. **Write a query to find the models whose price is between rupees 1000000 and 1500000.**

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1. **Write the query to find the second higest pirce of the car.**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **Write a query to display the model name, color allong with the price for the model 'Audi Q5'.**

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1. **Write a query to display all the car models for the brand 'Bentley'.**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **Write a query to display the difference between the price of two cars (First Car - model name:'Audi Q5' and color:'Silver Birch') and (Second Car - model name: 'Audi Q5' and color = 'Mustard').**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **Write a query to display all car models whose color is either 'Norfolk Mustard' or 'Rosso Corsa'.**

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1. **Write a query to display to count number of cars according to car model name and car model color.**

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ANSWERS

1. **select brands.name, models.name from brands, type\_brand, models where brands.brandid = type\_brand.brandid and type\_brand.id = models.type\_brandid order by brands.name;**
2. **select models.name, colorcode.color from models, colorcode, modelcolors where models.modelID = modelcolors.modelid and modelcolors.colorid = colorcode.id;**
3. **select types.name, models.name from types, models, type\_brand where types.typeid = type\_brand.typeid and type\_brand.id = models.type\_brandID and types.name='SUV';**
4. **select count(\*) from models, type\_brand, types where models.type\_brandid = type\_brand.id and type\_brand.typeid = types.typeid and types.name='SUV';**
5. **select colorcode.color, count(\*) from colorcode, models, modelcolors where models.modelid = modelcolors.modelid and modelcolors.colorid = colorcode.id and colorcode.color='Light Brown';**
6. **select models.name from models where models.name like 'M%';**
7. **select models.name, count(colorid) from models, modelcolors where models.modelid = modelcolors.modelid group by modelcolors.modelid;**
8. **select max(price) from modelcolors;**
9. **select models.name, price from models, modelcolors where models.modelid = modelcolors.modelid and price between 1000000 and 1500000;**
10. **select max(price) from modelcolors where price < (select max(price) from modelcolors);**
11. **select models.name, colorcode.color ,modelcolors.price from models, modelcolors, colorcode where models.modelid = modelcolors.modelid and modelcolors.colorid = colorcode.id and models.name='Audi Q5';**
12. **select models.name from models, type\_brand, brands where models.type\_brandid = type\_brand.id and type\_brand.brandid = brands.brandid and brands.name='Bentley';**
13. **select (select modelcolors.price from models, modelcolors, colorcode where models.modelid = modelcolors.modelid and modelcolors.colorid = colorcode.id and models.name='Audi Q5' and colorcode.color = 'Silver Birch') - (select modelcolors.price from models, modelcolors, colorcode where models.modelid = modelcolors.modelid and modelcolors.colorid = colorcode.id and models.name='Audi Q5' and colorcode.color = 'Mustard') "Difference in price";**
14. **select models.name, colorcode.color from models, modelcolors, colorcode where models.modelid = modelcolors.modelid and modelcolors.colorid = colorcode.id and colorcode.color in ('Norfolk Mustard','Rosso Corsa');**
15. **select models.name, colorcode.color, count(\*) from models, modelcolors, colorcode where models.modelid = modelcolors.modelid and modelcolors.colorid = colorcode.id group by models.name, colorcode.color;**