INVENTORY

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ITEM\_ID** | **MAKE** | **MODEL** | **TRIM** | **YEAR** | **COLOR** | **COST** |
| **1** | HONDA | ACCORD | EXL | 2012 | BLACK | $25000 |
| **2** | BMW | X5 | 3.0 | 2011 | SILVER | $45000 |
| **3** | HONDA | ACCORD | LX | 2012 | WHITE | $20000 |
| **4** | HONDA | CRV | LX | 2010 | BLACK | $19000 |
| **5** | TOYOTA | CAMRY | EX | 2011 | WHITE | $22000 |
| **6** | HONDA | ACCORD | EXL | 2011 | SILVER | $24000 |
| **7** | BMW | X3 | 3.0 | 2012 | SILVER | $35000 |
| **8** | HONDA | ACCORD | LX | 2011 | BLACK | $19000 |
| **9** | BMW | X3 | 3.0 | 2011 | SILVER | $34000 |
| **10** | HONDA | CRV | LX | 2011 | WHITE | $20000 |

AUCTION

|  |  |  |
| --- | --- | --- |
| **ITEM\_ID** | **OFFER** | **OFFERED\_BY** |
| **1** | $26000 | Tom |
| **1** | $23000 | MAX |
| **2** | $48000 | Bob |
| **2** | $44000 | Tom |
| **2** | $40000 | Liz |
| **3** | $19000 | Ryan |
| **7** | $26000 | Ryan |
| **7** | $29000 | Max |
| **7** | $33000 | Liz |
| **7** | $36000 | Tom |

1. Provide SQL to show all inventory records sorted by Make
2. Provide SQL to show all inventory records sorted by Make (Alphabetic order) and Cost (Highest cost at top)
3. Provide SQL to show all HONDA cars
4. Provide SQL to show all HONDA cars before 2011 year
5. Provide SQL to show all HONDA or BMW cars 2011 or beyond
6. Provide SQL to show total cost of all Honda cars
7. Provide SQL to show total cost of cars grouped by MAKE and YEAR
8. Provide SQL to show all car makes with count of cars for each make
9. Provide SQL to show all cars makes and year with counts of car for each MAKE and YEAR
10. Provide SQL to show all cars having more than 1 car for same make and year e.g. 2 Honda 2011
11. Provide SQL to show cars for having max number of items by make
12. Provide SQL to show cars with cost between $22000 and $30000
13. Provide SQL to find most expensive car
14. Provide SQL to find 2nd most expensive car
15. Provide SQL to find most expensive and least expensive cars
16. Provide SQL to find who put max number of bids
17. Provide SQL to find who won max number of cars in auction
18. Provide SQL to show which car had max number of bids
19. Provide SQL to show which cars did not have any bids
20. Provide SQL to show all cars with their corresponding bids
21. Provide SQL to show all cars with their max bid
22. Provide SQL to calculate Profit or loss for each car
23. Provide SQL to show AVERAGE bid for each car
24. How would you change the table model if we had to keep track of status of each car’s auction?
25. How would you change the table model if we had to maintain the history of price changes of a car in Inventory?

SQL Questions

- Outer joins

- Aggregate functions

- Difference between Union and Union All

- Case statements

- Time calculations