# Database Assessment

## Table structure for table products

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** |
| ***pro\_id*** | INT (11) | No |  |
| pro\_name | VARCHAR (50) | Yes | NULL |
| pro\_price | DECIMEL (10,2) | Yes | NULL |
| pro\_com | INT (11) | Yes | NULL |

## Dumping data for table products

|  |  |  |  |
| --- | --- | --- | --- |
| 101 | Mother Board | 3200.00 | 15 |
| 102 | Key Board | 450.00 | 16 |
| 103 | ZIP drive | 250.00 | 14 |
| 104 | Speaker | 550.00 | 16 |
| 105 | Monitor | 5000.00 | 11 |
| 106 | DVD drive | 900.00 | 12 |
| 107 | CD drive | 800.00 | 12 |
| 108 | Printer | 2600.00 | 13 |
| 109 | Refill cartridge | 350.00 | 13 |
| 110 | Mouse | 250.00 | 12 |

1. To find the items whose prices are higher than or equal to 250rs, ordered by product price in descending and then product name in ascending, and return proname and proprice:

SELECT pro\_name, pro\_price FROM products

WHERE pro\_price >= 250

ORDER BY pro\_price DESC, pro\_name ASC;

|  |  |
| --- | --- |
| 105 Monitor | 5000.00 11 |
| 101 Mother Board | 3200.00 15 |
| 108 Printer | 2600.00 13 |
| 106 DVD drive | 900.00 12 |
| 107 CD drive | 800.00 12 |
| 104 Speaker | 550.00 16 |
| 102 Key Board | 450.00 16 |
| 109 Refill cartridge | 350.00 13 |
| 110 Mouse | 250.00 12 |
| 103 ZIP drive | 250.00 14 |

2. To find the cheapest item and return proname and proprice:

SELECT pro\_name, pro\_price FROM products

ORDER BY pro\_price ASC LIMIT 1;

|  |  |  |  |
| --- | --- | --- | --- |
| 110 | Mouse | 250.00 | 12 |

3. To calculate the average price of the items for each company and return the average price and company code:

SELECT AVG(pro\_price) AS average\_price, pro\_com

FROM products GROUP BY pro\_com;

average price pro\_com

|  |  |  |
| --- | --- | --- |
| 5000.000000 |  | 11 |
| 650.000000 |  | 12 |
| 1475.000000 |  | 13 |
| 250.000000 |  | 14 |
| 3200.000000 |  | 15 |
| 500.000000 |  | 16 |

4. To find the average total for all the products mentioned in the table:

SELECT AVG(pro\_price) AS average\_total FROM product;

average\_total = 1435.000000