

# Assessment Of DBMS

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Make sure to use right sql syntax to solve the query given below :

- Write sql query to find the items whose prices are higher than or equal 250rs. Order the result by product price in descending, then product name in ascending. Return pro\_name and pro\_price
- Write a sql query to find the cheapest item. Return pro\_name and pro\_price.
- Write the sql query to calculate the average price of the items for each company. Return average price and company code.
- Write the sql query to find the average total for all the product mention in the table

Make sure to make your code clean neat

First we have to create tables as per instructions

```
CREATE TABLE product (  
    pro_id INT PRIMARY KEY,  
    pro_name VARCHAR(50),  
    pro_price DECIMAL(10,2),  
    pro_com INT  
);
```

Adding data as given in pdf:-

```
INSERT INTO product (pro_id, pro_name, pro_price,  
pro_com)
```

```
VALUES (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);
```

in/index.php?route=/sql&pos=0&db=assessment5&table=product

The screenshot shows a web-based database management interface. At the top, the browser address bar displays the URL: `in/index.php?route=/sql&pos=0&db=assessment5&table=product`. The interface has a top navigation bar with tabs: **Browse**, **Structure**, **SQL**, **Search**, **Insert**, **Export**, **Import**, **Privileges**, and **Operations**. Below this is a sub-navigation bar with links: **Profiling**, **Edit inline**, **Edit**, **Explain SQL**, **Create PHP code**, and **Refresh**. A control bar below the navigation bar includes a **Show all** checkbox, a **Number of rows** dropdown set to 25, a **Filter rows** search box with the placeholder text "Search this table", and a **Sort by key** dropdown set to None. An **Extra options** button is also present. The main area displays a table with the following columns: **pro\_id**, **pro\_name**, **pro\_price**, and **pro\_com**. The table contains 10 rows of data, each with a checkbox, an **Edit** icon, a **Copy** icon, and a **Delete** icon. The data is as follows:

	pro_id	pro_name	pro_price	pro_com
<input type="checkbox"/>	101	Mother Board	3200.00	15
<input type="checkbox"/>	102	Key Board	450.00	16
<input type="checkbox"/>	103	ZIP drive	250.00	14
<input type="checkbox"/>	104	Speaker	550.00	16
<input type="checkbox"/>	105	Monitor	5000.00	11
<input type="checkbox"/>	106	DVD drive	900.00	12
<input type="checkbox"/>	107	CD drive	800.00	12
<input type="checkbox"/>	108	Printer	2600.00	13
<input type="checkbox"/>	109	Refill cartridge	350.00	13
<input type="checkbox"/>	110	Mouse	250.00	12

Below the table, there is a **Check all** checkbox, a **With selected:** section with **Edit**, **Copy**, **Delete**, and **Export** icons. Another control bar is present below the table with the same **Show all**, **Number of rows**, **Filter rows**, and **Sort by key** options. At the bottom, a **Query results operations** section contains buttons for **Print**, **Copy to clipboard**, **Export**, **Display chart**, and **Create view**.

1:-

Write sql query to find the items whose prices are higher than or equal 250rs. Order the result by product price in descending, then product name in ascending. Return pro\_name and pro\_price

nin/index.php?route=/table/sql&db=assessment5&table=product

Server: 127.0.0.1 » Database: assessment5 » Table: product

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Show query box

Showing rows 0 - 9 (10 total, Query took 0.0009 seconds.) [pro\_price: 5000.00... - 250.00...] [pro\_name: MONITOR... - ZIP DRIVE...]

`SELECT pro_name, pro_price FROM product WHERE pro_price >= 250 ORDER BY pro_price DESC, pro_name ASC;`

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

	pro_name	pro_price
<input type="checkbox"/> Edit Copy Delete	Monitor	5000.00
<input type="checkbox"/> Edit Copy Delete	Mother Board	3200.00
<input type="checkbox"/> Edit Copy Delete	Printer	2600.00
<input type="checkbox"/> Edit Copy Delete	DVD drive	900.00
<input type="checkbox"/> Edit Copy Delete	CD drive	800.00
<input type="checkbox"/> Edit Copy Delete	Speaker	550.00
<input type="checkbox"/> Edit Copy Delete	Key Board	450.00
<input type="checkbox"/> Edit Copy Delete	Refill cartridge	350.00
<input type="checkbox"/> Edit Copy Delete	Mouse	250.00
<input type="checkbox"/> Edit Copy Delete	ZIP drive	250.00

☐ Check all | With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Console

2:-

Write a sql query to find the cheapest item. Return pro\_name and pro\_price.

Server: 127.0.0.1 » Database: assesment5 » Table: product

Browse Structure SQL Search Insert Export Import Privileges Operations Trac

Show query box

✓ Showing rows 0 - 1 (2 total, Query took 0.0008 seconds.)

```
SELECT pro_name, pro_price FROM product WHERE pro_price = (SELECT MIN(pro_price) FROM product);
```

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

	pro_name	pro_price
<input type="checkbox"/> Edit Copy Delete	ZIP drive	250.00
<input type="checkbox"/> Edit Copy Delete	Mouse	250.00

↑ ☐ Check all With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

3:-

Write the sql query to calculate the average price of the items for each company. Return average price and company code

Showing rows 0 - 5 (6 total, Query took 0.0009 seconds)

```
SELECT pro_com, AVG(pro_price) AS avg_price FROM product GROUP BY pro_com;
```

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

	pro_com	avg_price
<input type="checkbox"/> Edit Copy Delete	11	5000.000000
<input type="checkbox"/> Edit Copy Delete	12	650.000000
<input type="checkbox"/> Edit Copy Delete	13	1475.000000
<input type="checkbox"/> Edit Copy Delete	14	250.000000
<input type="checkbox"/> Edit Copy Delete	15	3200.000000
<input type="checkbox"/> Edit Copy Delete	16	500.000000

☐ Check all | With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

Print Copy to clipboard Export Display chart Create view

Console

4:-

Write the sql query to find the average total for all the product mention in the table

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

**overall\_avg\_price**

1435.000000

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query