

Write a SQL query to display the contents of the view VendorContractView:

Column names:

VendorId VendorName ContractCount AvgItemPrice

```
CREATE VIEW VendorContractView AS
SELECT
    v.vId AS VendorId,
    v.Vname AS VendorName,
    COUNT(DISTINCT c.ctId) AS ContractCount,
    ROUND(AVG(vi.Vprice)) AS AvgItemPrice
FROM VENDOR v
LEFT JOIN CONTRACT c ON v.vId = c.vId
LEFT JOIN VENDOR_ITEM vi ON v.vId = vi.vId
GROUP BY v.vId, v.Vname;
```

QV1 Use VendorContractView to retrieve a list of all records where each record is comprised of the vendor Id, vendor name with the maximum average price of Items

Column names:

VendorId VendorName

```
SELECT VendorId, VendorName
FROM VendorContractView
WHERE AvgItemPrice = (SELECT MAX(AvgItemPrice) FROM VendorContractView);
```

The screenshot shows the MySQL Workbench interface with the following details:

- Server:** 127.0.0.1
- Database:** best_price_store
- View:** VendorContractView
- Toolbar:** Browse, Structure, SQL, Search, Export, Privileges, Operations, Tracking.
- Status Bar:** Showing rows 0 - 3 (4 total, Query took 0.0026 seconds.)
- SQL Editor:** SELECT VendorId, VendorName FROM VendorContractView WHERE AvgItemPrice = (SELECT MAX(AvgItemPrice) FROM VendorContractView);
- Buttons:** Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
- Table Results:** A table with columns VendorId and VendorName, showing rows:
 - 2 Green Valley
 - 4 Whole Foods
 - 5 LA Queen
 - 6 Castor Sprouts
- Bottom Toolbar:** Show all | Number of rows: 25 | Filter rows: Search this table

QV2 Use VendorContractView to retrieve a list of records where each record is comprised of the vendor name, the total number of contracts, and the average price of Items for all vendors.

Column names:

VendorName ContractCount AvgItemPrice

```
SELECT VendorName, ContractCount, AvgItemPrice  
FROM VendorContractView;
```

The screenshot shows the MySQL Workbench interface with the following details:

- Server:** 127.0.0.1
- Database:** best_price_store
- View:** VendorContractView
- Toolbar:** Browse, Structure, SQL, Search, Export, Privileges, Operations, Tracking
- Status Bar:** Showing rows 0 - 5 (6 total, Query took 0.0008 seconds.)
- SQL Editor:** SELECT VendorName, ContractCount, AvgItemPrice FROM VendorContractView;
- Buttons:** Profiling, Edit inline, Explain SQL, Create PHP code, Refresh
- Table View:** VendorName, ContractCount, AvgItemPrice
- Data:**

VendorName	ContractCount	AvgItemPrice
Organic Nature	0	2
Green Valley	4	3
Green Mountains	1	2
Whole Foods	2	3
LA Queen	5	3
Castor Sprouts	0	3
- Buttons:** Show all, Number of rows: 25, Filter rows: Search this table
- Extra Options:** Extra options button
- Bottom Buttons:** Show all, Number of rows: 25, Filter rows: Search this table
- Bottom Tabs:** Query results operations, Console

QV3 Use the view VendorContractView to generate the min, max and average contacts by all the vendors in the VendorContractView

Column names:

MinContracts MaxContracts AvgContracts

```
SELECT  
MIN(ContractCount) AS MinContracts,  
MAX(ContractCount) AS MaxContracts,  
AVG(ContractCount) AS AvgContracts  
FROM VendorContractView;
```

Showing rows 0 - 0 (1 total, Query took 0.0010 seconds.)

```
SELECT MIN(ContractCount) AS MinContracts, MAX(ContractCount) AS MaxContracts, AVG(ContractCount) AS AvgContracts FROM VendorContractView;
```

MinContracts MaxContracts AvgContracts

0	5	2.0000
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Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Console

QV4 Use the VendorContractView to retrieve a list of records with the vendor name and the number of contracts for each vendor, sorted by the number of contracts in descending order.

Column Names:

VendorName ContractCount

```
SELECT VendorName, ContractCount
FROM VendorContractView
ORDER BY ContractCount DESC;
```

Showing rows 0 - 5 (6 total, Query took 0.0008 seconds.) [ContractCount: 5... - 0...]

```
SELECT VendorName, ContractCount FROM VendorContractView ORDER BY ContractCount DESC;
```

VendorName ContractCount

LA Queen	5
Green Valley	4
Whole Foods	2
Green Mountains	1
Organic Nature	0
Castor Sprouts	0

Query results operations

Console

QV5 Use the view VendorContractView to retrieve the total number of vendors, the total number of contracts, and the average price of items supplied by the vendors.

Column names:

TotalVendors TotalContracts AvgItemPrice

```
SELECT
    COUNT(VendorId) AS TotalVendors,
    SUM(ContractCount) AS TotalContracts,
    ROUND(AVG(AvgItemPrice)) AS AvgItemPrice
FROM VendorContractView;
```

Here, the AvgItemPrice was rounded from 2.67 to 3

The screenshot shows the MySQL Workbench interface with the following details:

- Server:** 127.0.0.1
- Database:** best_price_store
- View:** VendorContractView
- Toolbar:** Browse, Structure, SQL, Search, Export, Privileges, Operations, Tracking.
- Status Bar:** Your SQL query has been executed successfully.
- SQL Editor:** SELECT COUNT(VendorId) AS TotalVendors, SUM(ContractCount) AS TotalContracts, ROUND(AVG(AvgItemPrice)) AS AvgItemPrice FROM VendorContractView;
- Buttons:** Profiling, Edit inline, Explain SQL, Create PHP code, Refresh.
- Table Results:** A table with three columns: TotalVendors (6), TotalContracts (12), and AvgItemPrice (3).
- Bottom Bar:** Query results operations.