**Assignment 3**

**SQL Queries**

**Table Name: TRADES**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **DATE** | **FIRM** | **SYMBOL** | **SIDE** | **QUANTITY** | **PRICE** |
| 2/3/2014 | 1ABC | A123 | B | 200 | 41 |
| 2/4/2014 | 2BCD | B234 | B | 600 | 60 |
| 2/7/2014 | 1ABC | C345 | S | 600 | 70 |
| 2/10/2014 | 3CDE | C345 | S | 600 | 70 |
| 2/12/2014 | 4DEF | B234 | B | 200 | 62 |
| 2/14/2014 | 3CDE | B234 | B | 300 | 61 |
| 2/21/2014 | 1ABC | A123 | B | 300 | 40 |
| 2/24/2014 | 1ABC | A123 | S | 300 | 30 |
| 2/25/2014 | 4DEF | C345 | B | 2100 | 71 |
| 2/27/2014 | 3CDE | B234 | S | 1100 | 63 |

**Q1. Your business user asks you to tell them the unique symbols in the data table above.**

1. **Please write the SQL query you would use to query this table.**

**SELECT DISTINCT SYMBOL FROM TRADES**

1. **Please show the exact results you expect based on your SQL query**

|  |
| --- |
| **Symbol** |
| **A123** |
| **B234** |
| **C345** |

**Q2. Your business user asks you to tell them the unique firm and symbol combinations in the data table**

* 1. **Please write the SQL query you would use to query this table.**
  2. **Please show the exact results you expect based on your SQL query.**

**SELECT DISTINCT FIRM, SYMBOL FROM TRADES**

|  |  |
| --- | --- |
| **Firm** | **Symbol** |
| **1ABC** | **A123** |
| **2BCD** | **B234** |
| **3CDE** | **C345** |
| **4DEF** |  |
|  |  |
|  |  |

**Q3. Your business user asks you to show them a table that includes the number of trades for each firm and symbol combination in the data table above. Please write the SQL query you would use to query TRADES table to get below result**

SELECT FIRM, SYMBOL, COUNT(DISTINCT FIRM)

FROM TRADES,

GROUP BY FIRM, SYMBOL;

|  |  |  |
| --- | --- | --- |
| **FIRM** | **SYMBOL** | **NO\_TRADES** |
| 1ABC | A123 | 3 |
| 2BCD | B234 | 1 |
| 1ABC | C345 | 1 |
| 3CDE | C345 | 1 |
| 4DEF | B234 | 1 |
| 3CDE | B234 | 2 |
| 4DEF | C345 | 1 |
| CDE | B234 | 1 |