## Query 7: Rewrite Query 3 without CUBE, ROLLUP, or GROUPING SETS

Rewrite query 3 without the usage of the CUBE, ROLLUP, or GROUPING SETS operators. In rewriting the query, you should use NULL as the default value for each column.

**Answer:**

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| SELECT C.COMPANYNAME, BR.BPNAME,SUM(EXTCOST) AS TOTAL\_COST, SUM(QUANTITY) AS TOTAL\_QUANTITY |
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| --- |
| FROM INVENTORY\_FACT F JOIN BRANCH\_PLANT\_DIM BR ON F.BRANCHPLANTKEY = BR.BRANCHPLANTKEY |
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| --- |
| JOIN COMPANY\_DIM C ON C.COMPANYKEY = BR.COMPANYKEY |
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| --- |
| WHERE TRANSTYPEKEY = 2 |
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| GROUP BY C.COMPANYNAME, BR.BPNAME |
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| --- |
| UNION |
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| --- |
| SELECT C.COMPANYNAME, NULL,SUM(EXTCOST), SUM(QUANTITY) |
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| --- |
| FROM INVENTORY\_FACT F JOIN BRANCH\_PLANT\_DIM BR ON F.BRANCHPLANTKEY = BR.BRANCHPLANTKEY |
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| --- |
| JOIN COMPANY\_DIM C ON C.COMPANYKEY = BR.COMPANYKEY |
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| --- |
| WHERE TRANSTYPEKEY = 2 |
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| GROUP BY C.COMPANYNAME |
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| --- |
| UNION |
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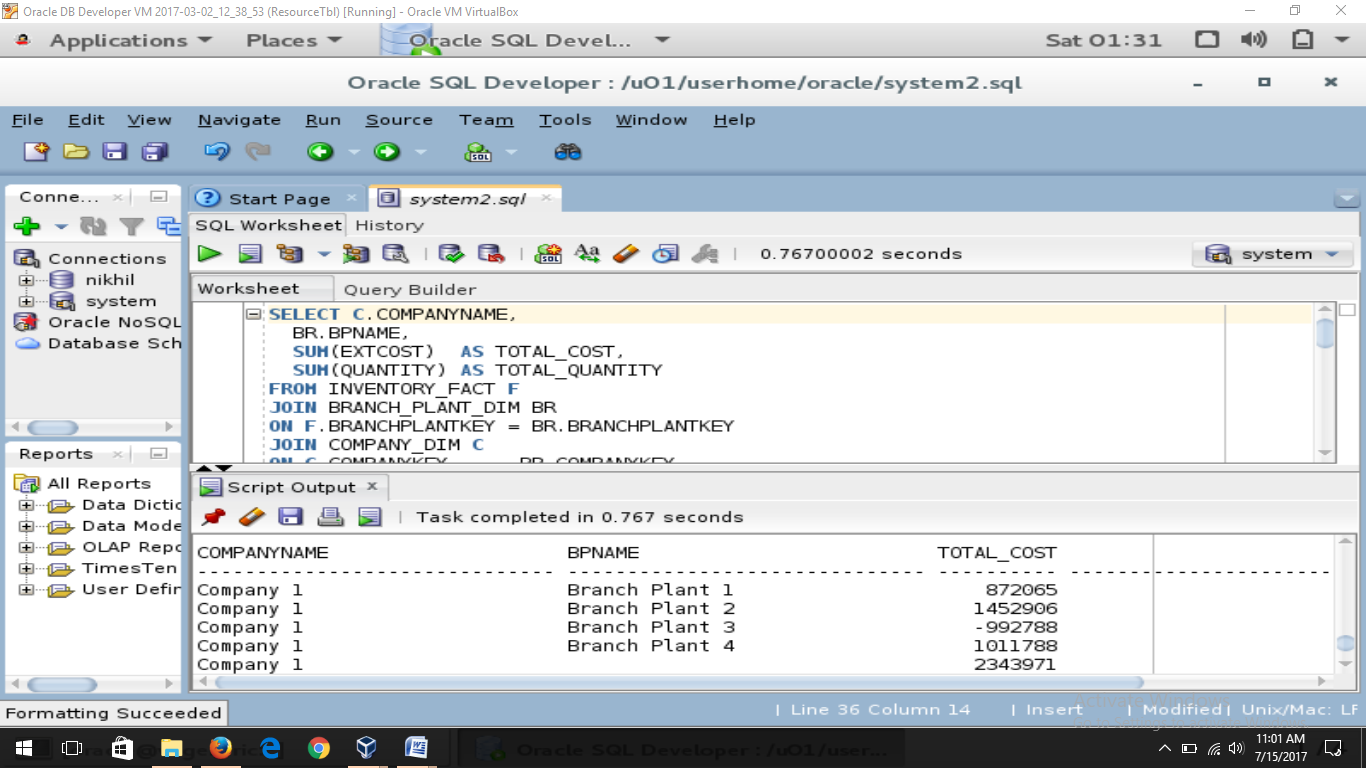
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| --- |
| SELECT NULL, NULL,SUM(EXTCOST), SUM(QUANTITY) |
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| --- |
| FROM INVENTORY\_FACT F JOIN BRANCH\_PLANT\_DIM BR ON F.BRANCHPLANTKEY = BR.BRANCHPLANTKEY |
|  |

|  |
| --- |
| JOIN COMPANY\_DIM C ON C.COMPANYKEY = BR.COMPANYKEY |
|  |

|  |
| --- |
| WHERE TRANSTYPEKEY = 2 |
|  |

ORDER BY 1,2;

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