NAME: ATHISH CK

ROLL NO:60

SQL ASSIGNMENT 1

OIL VENDOR INVENTORY MANAGEMENT

UNNORMALIZED TABLE:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| CUST\_NAME | DELIVERY ADDRESS | ITEM | COMPANY | COMPANY\_ID | PRICE | ORDER\_ID | COUNT |
| DENNIS SP MARKET | 4,XYZ ROAD,CBE | CASTOR OIL | IDHAYAM | 032 | 90 | 4000 | 20 |
| RELIANCE SP MARKET | 67,THOMAS ST,CBE | COOKING OIL | SUNFLOWER | 036 | 140 | 4001 | 40 |
| RAJA PROVISION | 45,RAM NAGAR,CBE | GROUNDNUT OIL | MURUGAN | 056 | 80 | 4002 | 15 |
| DENNIS SP MARKET | 4,XYZ ROAD,CBE | OLIVE OIL | OLEEV XTRA | 024 | 180 | 4003 | 30 |
| D MART | 23,KUNIYAMUTHUR,CBE | COCONUT OIL | VVD | 065 | 100 | 4004 | 50 |
| D MART | 23,KUNIYAMUTHUR,CBE | COOKING OIL | MR.GOLD | 054 | 135 | 4005 | 45 |

NORMALIZATION :

I NF : ASSIGNING PRIMARY KEY : CUST\_ID,IDENTIFICATION OF CRUD CHALLENGE

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CUST\_ID | CUST\_NAME | DELIVERY ADDRESS | ITEM | COMPANY | COMPANY\_ID | PRICE | ORDER\_ID | COUNT |
| DSP\_01 | DENNIS SP MARKET | 4,XYZ ROAD,CBE | CASTOR OIL | IDHAYAM | 032 | 90 | 4000 | 20 |
| RSP\_02 | RELIANCE SP MARKET | 67,THOMAS ST,CBE | COOKING OIL | SUNFLOWER | 036 | 140 | 4001 | 40 |
| RPRO\_03 | RAJA PROVISION | 45,RAM NAGAR,CBE | CASTO OIL | IDHAYAM | 032 | 90 | 4002 | 15 |
| DSP\_04 | DENNIS SP MARKET | 4,XYZ ROAD,CBE | OLIVE OIL | OLEEV XTRA | 024 | 180 | 4003 | 30 |
| DM\_05 | D MART | 23,KUNIYAMUTHUR,CBE | COCONUT OIL | VVD | 065 | 100 | 4004 | 50 |
| DM\_06 | D MART | 23,KUNIYAMUTHUR,CBE | COOKING OIL | SUNFLOWER | 036 | 140 | 4005 | 45 |

2 NF : ALL ATTRIBUTES (NON-KEY COLUMNS) DEPENDENT ON PRIMARY KEY:

|  |  |  |  |
| --- | --- | --- | --- |
| ITEM | COMPANY | COMPANY\_ID | PRICE |
| CASTOR OIL | IDHAYAM | 032 | 90 |
| COOKING OIL | SUNFLOWER | 036 | 40 |
| OLIVE OIL | OLEEV XTRA | 024 | 180 |
| COCONUT OIL | VVD | 065 | 100 |

|  |  |  |
| --- | --- | --- |
| CUST\_ID | CUST\_NAME | DELIVERY ADDRESS |
| DSP\_01 | DENNIS SP MARKET | 4,XYZ ROAD,CBE |
| RSP\_02 | RELIANCE SP MARKET | 67,THOMAS ST,CBE |
| RPRO\_03 | RAJA PROVISION | 45,RAM NAGAR,CBE |
| DSP\_04 | DENNIS SP MARKET | 4,XYZ ROAD,CBE |
| DM\_05 | D MART | 23,KUNIYAMUTHUR,CBE |
| DM\_06 | D MART | 23,KUNIYAMUTHUR,CBE |

PRIMARY KEY : CUST\_ID,ITEM,ORDER\_ID

|  |  |
| --- | --- |
| ORDER\_ID | COUNT |
| 4000 | 20 |
| 4001 | 40 |
| 4002 | 15 |
| 4003 | 30 |
| 4004 | 50 |
| 4005 | 45 |

PRIMARY KEY RELATIONS:

|  |  |
| --- | --- |
| CUST\_ID | ITEM |
| DSP\_01 | CASTOR OIL |
| RSP\_02 | COOKING OIL |
| RPRO\_03 | CASTOR OIL |
| DSP\_04 | OLIVE OIL |
| DM\_05 | COCONUT OIL |
| DM\_06 | COOKING OIL |

|  |  |
| --- | --- |
| CUST\_ID | ORDER\_ID |
| DSP\_01 | 4000 |
| RSP\_02 | 4001 |
| RPRO\_03 | 4002 |
| DSP\_04 | 4003 |
| DM\_05 | 4004 |
| DM\_06 | 4005 |

3 NF :

FURTHER NORMALISING:

|  |  |  |  |
| --- | --- | --- | --- |
| ITEM | COMPANY | COMPANY\_ID | PRICE |
| CASTOR OIL | IDHAYAM | 032 | 90 |
| COOKING OIL | SUNFLOWER | 036 | 40 |
| OLIVE OIL | OLEEV XTRA | 024 | 180 |
| COCONUT OIL | VVD | 065 | 100 |

PRIMARY KEY - ITEM

FOREIGN KEY - COMPANY

|  |  |
| --- | --- |
| COMPANY | COMPANY\_ID |
| IDHAYAM | 032 |
| SUNFLOWER | 036 |
| OLEEV XTRA | 024 |
| VVD | 065 |

|  |  |  |
| --- | --- | --- |
| ITEM | COMPANY | COMPANY\_ID |
| CASTOR OIL | IDHAYAM | 90 |
| COOKING OIL | SUNFLOWER | 40 |
| OLIVE OIL | OLEEV XTRA | 180 |
| COCONUT OIL | VVD | 100 |

PRIMARY KEY - COMPANY, ITEM