|  |  |
| --- | --- |
| Student Name | Uzair Hussain |
| Roll Number | 21SW085 |
| Section # | 3rd or III |
| Lab # | 2nd |
| Topic # | Models Practice |

**Tasks:**

**TASK1:**

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | **COLORS** | **PRICE($)** | **TAX** |
| T-shirt | Red, Blue | 12.00 | 0.60 |
| Polo | Red, Yellow | 12.00 | 0.60 |
| Sweat Shirt | Blue, Black | 25.00 | 1.25 |

**Convert the above table in: 1NF, 2NF, 3NF**

**TASK2:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SUPPLIER** | **NAME** | **CITY\_ID** | **CITY** | **PART** | **QUANTITY** |
| S1 | Ali | 10 | Paris | P3 | 257 |
| S1 | Ali | 10 | Paris | P1 | 500 |
| S1 | Ali | 10 | Paris | P4 | 125 |
| S2 | James | 12 | London | P3 | 200 |
| S7 | Robert | 10 | Paris | P4 | 342 |

**Convert the above table in: 1NF, 2NF, 3NF**

**Task 1:**

**1 NF:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **Colors** | **Price ($)** | **Tax** |
| T-Shirt | Red | 12.00 | 0.60 |
| T-Shirt | Blue | 12.00 | 0.60 |
| Polo | Red | 12.00 | 0.60 |
| Polo | Yellow | 12.00 | 0.60 |
| Sweat Shirt | Blue | 25.00 | 1.25 |
| Sweat Shirt | Black | 25.00 | 1.25 |

**2 NF:**

|  |  |  |
| --- | --- | --- |
| **Item** | **Price ($)** | **Tax** |
| T-Shirt | 12.00 | 0.60 |
| Polo | 12.00 | 0.60 |
| Sweat Shirt | 25.00 | 1.25 |

|  |  |
| --- | --- |
| **Item** | **Colors** |
| T-Shirt | Red |
| T-Shirt | Blue |
| Polo | Red |
| Polo | Yellow |
| Sweat Shirt | Blue |
| Sweat Shirt | Black |

**3 NF:**

|  |  |  |
| --- | --- | --- |
| **Item** | **Price ($)** | **Tax** |
| T-Shirt | 12.00 | 0.60 |
| Polo | 12.00 | 0.60 |
| Sweat Shirt | 25.00 | 1.25 |

|  |
| --- |
| **Item** |
| T-Shirt |
| Polo |
| Sweat Shirt |

|  |  |
| --- | --- |
| **Item\_Color** | **Colors** |
| T-Shirt\_Red | Red |
| T-Shirt\_Blue | Blue |
| Polo\_Red | Red |
| Polo\_Yellow | Yellow |
| Sweat Shirt\_Blue | Blue |
| Sweat Shirt\_Black | Black |

**Task 2:**

**1 NF:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Supplier** | **Name** | **City\_Id** | **City** | **Part** | **Quantity** |
| S1 | Ali | 10 | Paris | P3 | 257 |
| S1 | Ali | 10 | Paris | P1 | 500 |
| S1 | Ali | 10 | Paris | P4 | 125 |
| S2 | James | 12 | London | P3 | 200 |
| S7 | Robert | 10 | Paris | P4 | 342 |

**2 NF:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Supplier** | **Name** | **City\_Id** | **City** |
| S1 | Ali | 10 | Paris |
| S2 | James | 12 | London |
| S7 | Robert | 10 | Paris |

|  |  |
| --- | --- |
| **Part** | **Quantity** |
| P3 | 257 |
| P1 | 500 |
| P4 | 125 |
| P3 | 200 |
| P4 | 342 |

**3 NF:**

|  |  |  |
| --- | --- | --- |
| **Supplier** | **Name** | **City\_Id** |
| S1 | Ali | 10 |
| S2 | James | 12 |
| S7 | Robert | 10 |

|  |  |
| --- | --- |
| **City\_Id** | **City** |
| 10 | Paris |
| 12 | London |

|  |  |  |
| --- | --- | --- |
| **Part** | **Quantity** | **Supplier\_Id** |
| P3 | 257 | S1 |
| P1 | 500 | S1 |
| P4 | 125 | S1 |
| P3 | 200 | S2 |
| P4 | 342 | S7 |