**“Data Dictionary”**

**1)Description form for data flow**

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| **ID:** 1  **Name (Label):** Product Request  **Description:** contains all the products you want to order | | |
| **Source**  Entity-Customer | **Destination**  Process 1 – Create Product list | |
| **Type of Data Flow**  File Screen  Report Form Internal | | |
| **Data Structure**  Product Data | | **Volume/Time**  10/hours |
| **Comments:** This list is for one customer only insystem. | | |

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| **ID:** 2  **Name (Label):** product list  **Description:** It contains all the products you want to order and their ID | | |
| **Source**  Process 1- create product list | **Destination**  Process 2- get product ID | |
| **Type of Data Flow**  File Screen  Report Form Internal | | |
| **Data Structure**  Product Data | | **Volume/Time**  3/hours |
| **Comments:** This list is for one customer only insystem. | | |

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| **ID:** 3  **Name (Label):** product information  **Description:** It contains all the products you want to order and their ID. | | |
| **Source**  Process 2- get product ID | **Destination**  Entity- Sales Person | |
| **Type of Data Flow**  File Screen Report Form  Internal | | |
| **Data Structure**  Product Data | | **Volume/Time**  2/hours |
| **Comments:** This information pertains to all products required for each order | | |

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| **ID:** 4  **Name (Label):** product ID  **Description:** unique number for each product | | |
| **Source**  Process 2- get product ID | **Destination**  Process 3- calculate of available and unavailable quantity | |
| **Type of Data Flow**  File Screen Report Form  Internal | | |
| **Data Structure**  Product Data | | **Volume/Time**  5/hours |
| **Comments:** Contains every ID for every product in this order | | |

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| **ID:** 5  **Name (Label):** availability of products  **Description:** Looking for products availability | | |
| **Source**  Entity- Sales person | **Destination**  Process 3- calculate of available and unavailable quantity | |
| **Type of Data Flow**  File Screen Report Form  Internal | | |
| **Data Structure**  Product Data | | **Volume/Time**  1\hours |
| **Comments:** calculate of available and unavailable quantity of products in each order | | |

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| **ID:** 6  **Name (Label):** availability  **Description:** availability of required products | | |
| **Source**  Process 3- calculate of available and unavailable quantity | **Destination**  Process 4- update products list | |
| **Type of Data Flow**  File Screen Report Form  Internal | | |
| **Data Structure**  Product Data | | **Volume/Time**  9/hours |
| **Comments:** availability of required products in each order | | |

|  |  |  |
| --- | --- | --- |
| **ID:** 7  **Name (Label):** Reservation  **Description:** reservation order | | |
| **Source**  Process 4- update products list | **Destination**  Entity- Store | |
| **Type of Data Flow**  File Screen Report  Form Internal | | |
| **Data Structure**  Product Data | | **Volume/Time**  30/minutes |
| **Comments:** | | |

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| --- | --- | --- |
| **ID:** 8  **Name (Label):** pay ID  **Description:** unique number for Payment invoice | | |
| **Source**  Entity- Store | **Destination**  Process 5- print invoice of purchases | |
| **Type of Data Flow**  File  Screen Report Form Internal | | |
| **Data Structure**  Invoice data | | **Volume/Time**  24/hours |
| **Comments:** unique number for Payment invoice for each order | | |

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| --- | --- | --- |
| **ID:** 9  **Name (Label):** Payment and Receiving  **Description:** Payment and Receiving of order | | |
| **Source**  Process 5- print invoice of purchases | **Destination**  Entity-Customer | |
| **Type of Data Flow**  File Screen Report Form Internal manual | | |
| **Data Structure**  Invoice data | | **Volume/Time**  12/hours |
| **Comments:** | | |

**2)Data Structure**

**Product data**= Product ID +

Product Name +

Product Department +

(Expiry Date) +

{Price} +

Availability +

**Invoice data=** Customername +

Customer Phone Number +

Order ID +

The total cost +

Detailed cost +

Receiving location +

Store name +

(Store Phone Number) +

**3)Data Element**

**Data Element:** “Product ID”

|  |  |
| --- | --- |
| Name | Product ID |
| Alias | Product ID |
| Description | Contains ID for each product |
| Length | 8 |
| Input Format | 9 (8) |
| Output Format | 9 (8) |
| Default Value |  |
| Continuous / Discrete | Continuous |
| Type | Numbers |
| Base / Derived | Base |
| Upper Limit | 20 |
| Lower Limit | 5 |
| Discrete |  |
| Comments |  |

**Data Element:** “Customername”

|  |  |
| --- | --- |
| Name | Customer name |
| Alias | Customer name |
| Description | The triple name of customer who requested the order |
| Length | 20 |
| Input Format | X (20) |
| Output Format | X (20) |
| Default Value |  |
| Continuous / Discrete | Discrete |
| Type | Alphabetic |
| Base / Derived | Base |
| Upper Limit | 25 |
| Lower Limit | 10 |
| Discrete |  |
| Comments |  |

**Data Element:** “Product Name”

|  |  |
| --- | --- |
| Name | Product name |
| Alias | Product name |
| Description | Contains name of each product |
| Length | 30 |
| Input Format | X (30) |
| Output Format | X (30) |
| Default Value |  |
| Continuous / Discrete | Discrete |
| Type | Alphabetic |
| Base / Derived | Base |
| Upper Limit | 30 |
| Lower Limit | 20 |
| Discrete |  |
| Comments |  |

**Data Element:** “Product Department”

|  |  |
| --- | --- |
| Name | Product Department |
| Alias | Product Department |
| Description | It contains the department in which each product is located |
| Length | 20 |
| Input Format | X (20) |
| Output Format | X (20) |
| Default Value |  |
| Continuous / Discrete | Discrete |
| Type | Alphabetic |
| Base / Derived | Derived |
| Upper Limit | 22 |
| Lower Limit | 12 |
| Discrete |  |
| Comments |  |

**Data Element:** “Expiry Date”

|  |  |
| --- | --- |
| Name | Expiry Date |
| Alias | Expiry Date |
| Description | It contains Expiry Date of each product |
| Length | 20 |
| Input Format | 9 (8) |
| Output Format | 9 (8) |
| Default Value |  |
| Continuous / Discrete | Discrete |
| Type | Date/Time |
| Base / Derived | Base |
| Upper Limit | 8 |
| Lower Limit | 6 |
| Discrete |  |
| Comments |  |

**Data Element:** “Price”

|  |  |
| --- | --- |
| Name | Price |
| Alias | Price |
| Description | It contains the Price of each product |
| Length | 20 |
| Input Format | 9 (6) |
| Output Format | 9 (6) |
| Default Value |  |
| Continuous / Discrete | Continuous |
| Type | Numbers |
| Base / Derived | Base |
| Upper Limit | 6 |
| Lower Limit | 4 |
| Discrete |  |
| Comments |  |

**Data Element:** “Availability”

|  |  |
| --- | --- |
| Name | Availability |
| Alias | Availability |
| Description | Contains availability of each product |
| Length | 15 |
| Input Format | X (15) |
| Output Format | X (15) |
| Default Value |  |
| Continuous / Discrete | Discrete |
| Type | Alphabetic |
| Base / Derived | Base |
| Upper Limit | 15 |
| Lower Limit | 12 |
| Discrete |  |
| Comments |  |

**Data Element:** “Customer Phone Number”

|  |  |
| --- | --- |
| Name | Customer Phone Number |
| Alias | Customer Phone Number |
| Description | Contains phone number of each customer |
| Length | 11 |
| Input Format | 9 (11) |
| Output Format | 9 (11) |
| Default Value |  |
| Continuous / Discrete | Continuous |
| Type | Numbers |
| Base / Derived | Base |
| Upper Limit | 11 |
| Lower Limit | 7 |
| Discrete |  |
| Comments |  |

**Data Element:** “Order ID”

|  |  |
| --- | --- |
| Name | Order ID |
| Alias | Order ID |
| Description | Contains ID of each order |
| Length | 5 |
| Input Format | 9 (5) |
| Output Format | 9 (5) |
| Default Value |  |
| Continuous / Discrete | Continuous |
| Type | Numbers |
| Base / Derived | Base |
| Upper Limit | 5 |
| Lower Limit | 3 |
| Discrete |  |
| Comments |  |

**Data Element:** “The total cost”

|  |  |
| --- | --- |
| Name | The total cost |
| Alias | The total cost |
| Description | Contains the total cost of each order |
| Length | 9 |
| Input Format | 9 (9) |
| Output Format | 9 (9) |
| Default Value |  |
| Continuous / Discrete | Continuous |
| Type | Numbers |
| Base / Derived | Derived |
| Upper Limit | 9 |
| Lower Limit | 5 |
| Discrete |  |
| Comments |  |

**Data Element:** “Detailed cost”

|  |  |
| --- | --- |
| Name | Detailed cost |
| Alias | Detailed cost |
| Description | Contains detailed cost of each order |
| Length | 40 |
| Input Format | 9 (40) |
| Output Format | 9 (40) |
| Default Value |  |
| Continuous / Discrete | Continuous |
| Type | Numbers |
| Base / Derived | Base |
| Upper Limit | 40 |
| Lower Limit | 25 |
| Discrete |  |
| Comments |  |

**Data Element:** “Receiving location”

|  |  |
| --- | --- |
| Name | Receiving location |
| Alias | Receiving location |
| Description | Contains receiving location of each order |
| Length | 25 |
| Input Format | X (25) |
| Output Format | X (25) |
| Default Value |  |
| Continuous / Discrete | Discrete |
| Type | Alphabetic |
| Base / Derived | Base |
| Upper Limit | 25 |
| Lower Limit | 10 |
| Discrete |  |
| Comments |  |

**Data Element:** “Store name”

|  |  |
| --- | --- |
| Name | Store name |
| Alias | Store name |
| Description | Contains the store reserved from it each order |
| Length | 10 |
| Input Format | X (10) |
| Output Format | X (10) |
| Default Value |  |
| Continuous / Discrete | Discrete |
| Type | Alphabetic |
| Base / Derived | Base |
| Upper Limit | 10 |
| Lower Limit | 6 |
| Discrete |  |
| Comments |  |

**Data Element:** “Store Phone Number”

|  |  |
| --- | --- |
| Name | Store Phone Number |
| Alias | Store Phone Number |
| Description | Contains the phone number of the store reserved from it each order |
| Length | 11 |
| Input Format | 9 (11) |
| Output Format | 9 (11) |
| Default Value |  |
| Continuous / Discrete | Continuous |
| Type | Numbers |
| Base / Derived | Base |
| Upper Limit | 11 |
| Lower Limit | 7 |
| Discrete |  |
| Comments |  |

**4)Data Store**

|  |  |
| --- | --- |
| Name | Product File |
| Alias | Product File |
| Description | It contains all the data for each product |
| File Type | Text |
| File Format | Letters |
| Record Site | 15 |
| Maximum Records | 10 |
| Average Records | 5 |
| Growth per Year |  |
| Data Set |  |
| Primary Key | Customer |
| Secondary Key |  |
| Comments |  |

|  |  |
| --- | --- |
| Name | Reservation File |
| Alias | Reservation File |
| Description | Contains a receipt for each reservation |
| File Type | Text and Float |
| File Format | Letters & Numbers |
| Record Site | 30 |
| Maximum Records | 20 |
| Average Records | 10 |
| Growth per Year |  |
| Data Set |  |
| Primary Key | Customer |
| Secondary Key |  |
| Comments |  |