**Inference of Medical Inventory Optimaization Dataset**

**First Moment Business Decision Making:**

**MEAN:**

The mean of **quantity** 2.2317484878323252

The mean of **returnquality** 0.29195386130257420172

The mean of **final\_cost** 124.8239569559713040

The mean of **final\_cost** 234.0383004642003095

The mean of **rtnmrp** 29.1267549585033057

**Median:**

The median of **quantity** 1

The median of **returnquality** 0

The median of **final\_cost** 53.65

The median of **final\_cost** 86.424

The median of **rtnmrp** 0

**MODE:**

Count of **medical** 14218

>Distinct Count of **typeofsales** 2

All values :

|  |  |
| --- | --- |
| "Sale" | 12537 |
| "Return" | 1681 |

>Distinct Count of **specialization** 58

>Distinct Count of **dept** 3

All values: "

|  |  |
| --- | --- |
| Department1" | 12440 |
| "Department2" | 1566 |
| "Department3" | 212 |

>Count of **formulation** 13565

Distinct Count of **formulation** 4

All values :

|  |  |
| --- | --- |
| "Form1" | 11622 |
| "Form2" | 1325 |
|  | 653 |
| "Patent" | 539 |
| "Form3" | 79 |

>Count of **drugname** 12550

Distinct Count of **drugname** 751

**Second Moment Decision Making:**

**Variance:**

The Variance of **quantity** is 26.3360098981989371

The Variance of **returnquantity** is 2.7003164665728664

The Variance of **final\_cost** is 216007.851762721456

The Variance of **final\_sales** is 450560.406000303026

The Variance of **rtnmrp** is 33217.222494396137

**Standard Deviation:**

The standard Deviation of **quantity** is 5.1318622251770299

The standard Deviation of **returnquantity** is 1.6432639674053790

The standard Deviation of **final\_cost** is 464.766448619865

The standard Deviation of **final\_sales** is 671.237965255470

The standard Deviation of **rtnmrp** is 182.255925814214

**Range:**

The Range of **quantity** is 150

The Range of **returnquantity** is 50

The Range of **final\_cost** is 33138

The Range of **final\_sales** is 39490

The Range of **rtnmrp** is 8014

**Third Order Business Decision Making**

**Skewness:**

Skewness for **quantity** 0.7200340440808269

Skewness for **returnquantity** 0.5329824054963623

Skewness for **final\_cost** 0.45940141013287394

Skewness for **final\_sales** 0.659717344252334

Skewness for **rtnmrp** 0.4794203072214495

**Fourth Order Business Decision Making**

**Kurtosis:**

Kurtosis for **quantity** 0.00131993133036983467

Kurtosis for **final\_cost** 12642656262.60855632

Kurtosis for **final\_sales** 0.00000000000000000000000065723759826532890390