

Overview: I will be importing a purchase order read from a csv file in the database using SQL*Loader. This csv file will be called 'SQL Project PO Generator #1.csv'. For this example, this csv file was randomly generated with over 500 lines of entries. So there will be repeated products in this file to show that duplicated items can be handled.

Step 1: Look at Implementation #3 of how I imported the csv file. When importing the file, I will be adding them into table PO_GENERATOR that will hold the PO Number, Part Number, and Quantity.

Small preview of the table plus the number of rows added.

PO_NUMBER	PART_NUMBER	QUANTITY
10002	3430042	7
10002	1310-1892-00	11
10002	600-03038	14
10002	19286123	11
10002	88946627	7
10002	344308	11
10002	1310-1892-00	10
10002	19286095	13
10002	E3.36	9


```
SELECT COUNT(*) ROW_COUNT
FROM PO_GENERATOR;
```


ROW_COUNT
500

Step 2: Now I'll be adding them into my PURCHASE_ORDERS Table. I will execute the procedure ADD_NEW_PO_ORDERS_FROM_GENERATOR.

As shown in the picture, I have already processed Purchased Order 10001, but not 10002 because it has recently been added. Also, any duplicates were added into the same row that has their part number.

PO_ID	PO_NUMBER	PART_NUMBER	QUANTITY	UNIT_PRICE	PROCESSED
86	10001	19261799	86	59.82	Y
87	10001	84143543	100	340.92	Y
88	10001	13597236	125	340.31	Y
89	10001	344308	135	50.23	Y
90	10001	E3.36	143	6.99	Y
91	10001	1310-1324-00	182	23.79	Y
92	10001	42757085	87	80.63	Y
93	10001	E3.20	102	6.49	Y
94	10002	19286095	119	41.45	N
95	10002	344308	106	50.23	N
96	10002	13597236	111	340.31	N
97	10002	12620540	59	9.8	N
98	10002	E3.20	125	6.49	N
99	10002	1310-1892-00	168	43.59	N
100	10002	344480	72	52.78	N
101	10002	E3.66	75	6.49	N
102	10002	19241877	185	60.41	N

Step 3: Once this purchase order has been received in the Receiving Department, then it will be added into the warehouse. ADD_PO_PRODUCTS_TO_RECEIVING will be executed

```
-- (Purchase Order Number)
EXECUTE PACKAGE_WAREHOUSE_INVENTORY.ADD_PO_PRODUCTS_TO_RECEIVING(10002);
```

The products will be added into the Receiving section of the warehouse, aka Bin = 'REC' and Zone = 'Receiving'

To make it easier to see, I combine my WAREHOUSE_INVENTORY Table together. One before the new PO order was added, and the other afterwards.

As you can see, the counts for some of these products were increased, while Product ID 2 and 3 were added into the warehouse for the first time.

BIN	ZONE	OUTDATED_PRODUCT	OLD_COUNT	UPDATED_PRODUCT	NEW_COUNT
1 REC	Receiving	1	87	1	171
2 (null)	(null)	(null)	(null)	2	123
3 (null)	(null)	(null)	(null)	3	119
4 REC	Receiving	4	106	4	226
5 REC	Receiving	5	156	5	303
6 REC	Receiving	6	129	6	213
7 REC	Receiving	7	96	7	264
8 REC	Receiving	8	149	8	261
9 REC	Receiving	9	103	9	233
10 REC	Receiving	10	182	10	279
11 REC	Receiving	11	167	11	278
12 REC	Receiving	12	107	12	194
13 REC	Receiving	13	116	13	181
14 REC	Receiving	14	124	14	264
15 REC	Receiving	15	124	15	183
16 REC	Receiving	16	87	16	190
17 REC	Receiving	17	130	17	205
18 REC	Receiving	18	143	18	254
19 REC	Receiving	19	102	19	227
20 REC	Receiving	20	150	20	280
21 REC	Receiving	21	79	21	264

In addition, PO Number 10002 was marked as verified by the Receiving Center as to avoid the same PO order being added into the warehouse twice

100	10002	344480	72	52.78 Y
101	10002	E3.66	75	6.49 Y
102	10002	19241877	185	60.41 Y
103	10002	88946652	71	154.63 Y

From here, the warehouse workers will be incharge of moving these items into their proper shelves.