Q LANGUAGE - MAINTENANCE FUNCTIONS

.Q.en

.Q.en is a dyadic function which help in splaying a table by enumerating a symbol column. It is especially useful when we are dealing with historical db *splayed, partitiontablesetc. .* −

```
.Q.en[`:directory;table]
```

where **directory** is the home directory of the historical database where **sym file** is located and **table** is the table to be enumerated.

Manual enumeration of tables is not required to save them as splayed tables, as this will be done by −

```
.Q.en[`:directory_where_symbol_file_stored]table_name
```

.Q.dpft

The **.Q.dpft** function helps in creating partitioned and segmented tables. It is advanced form of **.Q.en**, as it not only splays the table but also creates a partition table.

There are four arguments used in **.Q.dpft** −

- symbolic file handle of the database where we want to create a partition,
- **q** data value with which we are going to partition the table,
- name of the field with which parted `` `p# `` attribute is going to be applied *usually`sym*, and
- the table name.

Let's take an example to see how it works −

```
q)tab:([]sym:5?`msft`hsbc`samsung`ibm;time:5?(09:30:30);price:5?30.25)

q).Q.dpft[`:c:/q/;2014.08.24;`sym;`tab]
`tab

q)delete tab from `
'type

q)delete tab from `/
'type

q)delete tab from .
'type

q)delete tab from `.
`.

q)tab
'tab
```

We have deleted the table **tab** from the memory. Let us now load it from the db

```
q)\l c:/q/2014.08.24/

q)\a
,`tab

q)tab
```

```
    sym       time       price
------------------------------
   hsbc     07:38:13    15.64201
   hsbc     07:21:05    5.387037
   msft     06:16:58    11.88076
   msft     08:09:26    12.30159
 samsung    04:57:56    15.60838
```

.Q.chk

.Q.chk is a monadic function whose single parameter is the symbolic file handle of the root directory. It creates empty tables in a partition, wherever necessary, by examining each partition subdirectories in the root.

```
.Q.chk `:directory
```

where **directory** is the home directory of the historical database.