Assignment 18.3

Problem Statement:

Explain the below concepts with an example in brief.

Share the screenshot of the examples practiced.

1. Version:

Keeps the history records of the column family.

```
create 'clicks', {NAME=>'hits', VERSIONS=>5}
refer link:
```

https://raw.githubusercontent.com/yrchhabhaiya/BigData Session17Assignments/master/Assignment%2017.2.pdf

above link gives detail explanation on the version.

2. Create table:

Used for creating the table. Create the table 'employee' with one column family 'details'.

```
Create 'employe', 'details'
```

```
hbase(main):010:0> create 'employee','details'
0 row(s) in 0.2110 seconds

=> Hbase::Table - employee
hbase(main):011:0>
```

3. Alter table:

Change table structure and parameters of the table. Version of the column family 'details' set to 3.

alter 'employee', NAME=> 'details', VERSION=>3

```
hbase(main):011:0> alter 'employee', NAME=> 'details', VERSION=>3

Unknown argument ignored for column family details: 1.8.7

Updating all regions with the new schema...

0/1 regions updated.

1/1 regions updated.

Done.

0 row(s) in 2.1220 seconds

hbase(main):012:0>
```

4. <u>Describe:</u>

Gives the description of the table along with the column family details.

Describe 'employee'

```
hbase(main):012:0> describe 'employee'
Table employee is ENABLED
employee
COLUMN FAMILIES DESCRIPTION
{NAME => 'details', BLOOMFILTER => 'ROW', VERSIONS => '1', IN_MEMORY => 'false', KEEP_DELETED_CELLS => 'FALSE', DATA_BLOCK_ENCODING => 'NONE', TTL
=> 'FOREVER', COMPRESSION => 'NONE', MIN_VERSIONS => '0', BLOCKCACHE => 'true', BLOCKSIZE => '65536', REPLICATION_SCOPE => '0'}
1 row(s) in 0.0630 seconds
hbase(main):013:0>
```

5. Drop table:

Drops the table along with structure details. However before dropping table we need to disable the table.

Scan 'employee'

Disable 'employee'

Describe 'employee'

Drop 'employee'

list

6. List

Gives the list of tables in the HBase

list

```
hbase(main):013:0> list
TABLE
clicks
customer
employee
3 row(s) in 0.0110 seconds
=> ["clicks", "customer", "employee"]
hbase(main):014:0>
```

7. Is Enabled

Checks the status of the table if it is enabled or disabled.

Is_enabled 'employee'

```
hbase(main):018:0> is_enabled 'employee'
true
0 row(s) in 0.0170 seconds
hbase(main):019:0>
```

8. Truncate

Empty the whole table; delete all records in the table.

Truncate 'employee'

```
hbase(main):027:0> truncate 'employee'
Truncating 'employee' table (it may take a while):
- Disabling table...
- Truncating table...
0 row(s) in 1.3230 seconds
hbase(main):028:0> scan 'employee'
ROW COLUMN+CELL
0 row(s) in 0.3110 seconds
hbase(main):029:0>
```

9. Put

Insert and update data into the table. Insert data of RowKey='john' where location column is 'boston'.

put 'employee', 'john', 'details:location', 'boston'

```
hbase(main):019:0> put 'employee','john','details:location','boston'
0 row(s) in 0.1050 seconds

hbase(main):020:0> get 'employee','john','details:location'
COLUMN CELL
details:location timestamp=1503157275320, value=boston
1 row(s) in 0.0170 seconds
```

Update record with rowkey='john'

put 'employee', 'john', 'details:location', 'newyork'

```
hbase(main):021:0> put 'employee','john','details:location','newyork'
0 row(s) in 0.0100 seconds

hbase(main):022:0> get 'employee','john','details:location'
COLUMN
CELL
details:location
timestamp=1503157401951, value=newyork
1 row(s) in 0.0070 seconds
```

10. Get

Return the record using column family and column qualifier.

get 'employee', 'john', 'details:location'

```
hbase(main):021:0> put 'employee','john','details:location','newyork'
0 row(s) in 0.0100 seconds

hbase(main):022:0> get 'employee','john','details:location'
COLUMN CELL
details:location timestamp=1503157401951, value=newyork
1 row(s) in 0.0070 seconds
```

11. <u>Scan</u>

Shows whole table content.

Scan 'employee'

```
hbase(main):026:0> scan 'employee'

ROW

david

john

tom

3 row(s) in 0.0150 seconds

COLUMN+CELL

column=details:location, timestamp=1503157596189, value=dallas

column=details:location, timestamp=1503157401951, value=newyork

column=details:location, timestamp=1503157607525, value=london
```