Big Data Bytes User Manual

Conventions: anything in [ ] is optional. x, y, z mean user typed in value (i.e. -byOffice x means user would type -byOffice boston). { } indicates one of the choices is required. Case is ignored.

General Commands:

❖ SQL mode: direct sql query
  ➢ **Terminal Command:** -sql

❖ Exit application:
  ➢ **Terminal Command:** exit || -e

❖ Logoff: (Logon is implicitly called when starting up the db)
  ➢ **Terminal Command:** logoff || -l

❖ Quit application:
  ➢ **Terminal Command:** quit || -q

❖ Go back to main view mode:
  ➢ **Terminal Command:** back || -b

❖ Go to sale history view:
  ➢ **Terminal Command:** history

❖ Go to available properties view:
  ➢ **Terminal Command:** available

❖ Go to sold properties view:
  ➢ **Terminal Command:** sold

❖ Go to client list view:

➢ **Terminal Command:** clients

❖ Go to agents view:
 ➢ **Terminal Command:** agents

❖ Go to update mode:
 ➢ **Terminal Command:** -u

Sale History Commands:

❖ Enter fixed value (i.e. add fixed search parameter, like always by one office)
 ➢ **Terminal Command:** *enter office x*
❖ sales totals of the entire business, or by specified offices or agents, sorted in ascending or descending order.
 ➢ **Terminal Command:** -total [-byOffice OR -byAgent {-asc OR -desc}]
 ➢ **Sql Query:**
  ■ select sum(commission_percent * sale_price) as office_commission from saleHistory
  ■ select sum(commission_percent * sale_price) as office_commission from saleHistory where location = x order by office ASC;
  ■ select sum(commission_percent * sale_price) as office_commission from saleHistory where location = x order by office DESC;
  ■ select sum(commission_percent * sale_price) as office_commission from saleHistory where agent = x order by office ASC;

- select sum(commission_percent * sale_price) as office_commission from saleHistory where agent = x order by office DESC;

❖ Monthly sales totals by specific agent
  ➢ **Terminal Command:** -byAgent x
  ➢ **Sql Query:**
    - select sum(commission_percent * sale_price) as agent_comission from saleHistory where agent = x;

❖ Find the office with the most sales.
  ➢ **Terminal Command:** -bestOffice
  ➢ **Sql Query:**
    - select office, sum(commission_percent * sale_price) as total_sales from saleHistory;
    /*
    Sales per agent, sorted by most to least revenue OR least to most
      - **Terminal Command:** -sales {-byAgent x} [-byOffice x] {-desc OR -asc}
      - **Sql Query:**
    */

Available Properties Commands:
❖ Find the most expensive property.
  ➢ **Terminal Command:** -mostExpensive [-byOffice x]
  ➢ **Sql Query:**
    - select * from availableProperty order by asking_price limit 1;
    - select * from availableProperty where office = 'Davis-Stroman' order by asking_price limit 1;

- ❖ Number of properties for sale managed by each office
  - ➢ **Terminal Command:** -totalNumber [-byOffice x] [-min]
  - ➢ **Sql Query:**
    - ■ select count(*) as 'Total Number of Properties'   from availableProperty;
    - ■ select count(*) as 'Total Number of Properties' from availableProperty where office = 'Davis-Stroman';
    - ■ *select count(*) as 'Total Number of Properties' from availableProperty where office = 'Davis-Stroman' and asking_price > 5000000;*

- ❖ List all for sale properties in *x,y,z* (city, zip, or state) [-min]
  - ➢ **Terminal Command:** {-byCity x OR -byOffice x} {-full OR -min}
  - ➢ **Sql Query:**
    - ■ select count(*) as 'Total Number of Properties' from availableProperty;
    - ■ select count(*) as 'Total Number of Properties' from availableProperty where office = 'Davis-Stroman';
    - ■ SELECT * FROM availableproperty where office = 'Mante-Barrows';
- ❖ List all properties by location and price range
  - ➢ **Terminal Command:** [-over x] [under y] [-byOffice z OR -byCity x} [-min]
    - ■ -full is default choice, have to type commands in this order if you want to use multiple
  - ➢ **Sql Query:**
    - ■ SELECT * FROM availableproperty where asking_price > 1099950;
    - ■ SELECT * FROM availableproperty where asking_price > 6099950;
    - ■ SELECT * FROM availableproperty where city_name = 'WEBSTER';

- SELECT * FROM availableproperty where asking_price between 2099950 and 6099950;
- SELECT * FROM availableproperty where asking_price between 2099950 and 6099950 and city_name = 'PENFIELD';

❖ Avg property price per office
  ➢ **Terminal Command:** -avgPrice {-byCity x OR -byOffice x}
  ➢ **Sql Query:**
    ■ SELECT avg(asking_price) FROM availableproperty where city_name = 'PENFIELD';
    ■ SELECT avg(asking_price) FROM availableproperty where office = 'Davis-Stroman';

Sold Properties Commands:

❖ List all sold properties [by office]
  ➢ **Terminal Command:** -all [-byOffice x] {-desc OR -asc}
  ➢ **Sql Query:**
    ■ SELECT * FROM soldproperty order by office;
    ■ SELECT * FROM soldproperty order by agent_Lname;
    ■ SELECT * FROM soldproperty order by office desc;
    ■ SELECT * FROM soldproperty order by agent_Lname desc;
  ➢ select * from soldProperty
  ➢ Select * from soldProperty order by ASC;
  ➢ Select * from soldProperty order by DESC;
  ➢ select * from soldProperty where location = x order by ASC;
  ➢ Select * from soldProperty where location = x order by DESC;

❖ List all sales since *x* days ago
  ➢ **Terminal Command:** -since x [-byOffice x]
  ➢ **Sql Query:**

- select * from soldProperty where date_signed <= 'xx-xx-xxxx'

Client List Commands:

❖ Print out information about all buyers [at *x* office]
- ➢ **Terminal Command:** -allBuyers [-byOffice x]
- ➢ **Sql Query:**
    - SELECT * FROM clientlist where client_type = 1;
    - SELECT * FROM clientlist where client_type = 1 and office = 'Cremin Group';

❖ Print out information about *x* seller (for contact purpose)
- ➢ **Terminal Command:** -seller x
- ➢ **Sql Query:**
    - SELECT * FROM clientlist where client_type = 0 and client_Fname = 'Biron';

❖ Print out information about *x* buyer (for contact purpose)
- ➢ **Terminal Command:** -buyer x
- ➢ **Sql Query:**
    - SELECT * FROM clientlist where client_type = 1 and client_Fname = 'Klaus';

Agents List Commands:

❖ List the primary office of all agents.
- ➢ **Terminal Command:** -primaryOffice
- ➢ **Sql Query:**
    - select * from agentList

❖ Find the agent that sold the most properties this year.
- ➢ **Terminal Command:** -mostPropertySold [-byOffice x]
- ➢ **Sql Query:**

- SELECT office , count(*) as 'number of sales' FROM salehistory group by office order by count(*) desc limit 1;

❖ List all agents and their info (select *) in *x* office
  ➢ **Terminal Command:** -list [-byOffice x]
  ➢ **Sql Query:**
    - select * from agentList;
    - SELECT * FROM agentlist where office = 'Cole LLC';

❖ Sales of specified agent
  ➢ **Terminal Command:** -sales -byAgent x
  ➢ **Sql Query:**
    - SELECT * FROM bigdatabyte.salehistory where agent_Fname = 'Mathias';