Finding Greenplum distribution keys

By default the modified version of the `psql` command line used with Greenplum will show you the `DISTRIBUTED BY` clause of a table when you dump the table definition with `\d+`. However if your client is using the standard Postgres `psql` then this doesn't work. In order to find the definitive list of distribution keys you can query a combination of:

- `pg_class`
- `pg_namespace`
- `pg_attribute`
- `gp_distribution_policy`

The only trick here is there may be more than one distribution column, so the column `gp_distribution_policy.attrnums` is actually an array. We can query that using `ANY`, which Greenplum borrowed from Postgres.

```
SELECT n.nspname as schema
     , c.relname as table_name
     , c.oid
     , a.attnum
     , a.attname as dist_col
  FROM pg_class c

  JOIN pg_namespace n
    ON c.relnamespace = n.oid
   AND n.nspname = 'ctx'
   AND c.relname = 'mv_crods_client_group'

  JOIN gp_distribution_policy d
    ON d.localoid = c.oid

  JOIN pg_attribute a
    ON d.localoid = a.attrelid
   AND a.attnum = ANY (d.attrnums)
  ;
```

Example results:

```
 schema |      table_name       |    oid    | attnum |     dist_col
--------+-----------------------+-----------+--------+------------------
 ctx    | mv_crods_client_group | 309005535 |      2 | client_group_id
 ctx    | mv_crods_client_group | 309005535 |      3 | version
(2 rows)
```

This table will thus include the clause `DISTRIBUTED BY (client_group_id, version)`

Scriptable version:

```
SELECT n.nspname as schema
     , c.relname as table_name
     , c.oid
     , a.attnum
     , a.attname as dist_col
  FROM pg_class c

  JOIN pg_namespace n
    ON c.relnamespace = n.oid
   AND n.nspname = :sch
   AND c.relname = :obj

  JOIN gp_distribution_policy d
    ON d.localoid = c.oid

  JOIN pg_attribute a
    ON d.localoid = a.attrelid
   AND a.attnum = ANY (d.attrnums)

 ;
```

Then:

```
psql -h iagdcaprod.auiag.corp -U x123456 -d iadpprod -v sch="'ctx'" -v
obj="'mv_crods_client_group'" -f dist_key.sql
```