

Total Basic Metrics Country

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Basic metrics calculated with country dimension Also exports data to Impala DB.
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· dau INT.

    dni INT,

   • wau INT,
    • mau INT,

    last30 INT

    acu INT

   · deu int,
    • country STRING,
    • date TIMESTAMP (rounded to day, e.g. 2014-12-31 00:00:00)
Script Location in HDFS:
/user/bi.user/scripts/mobile_operational_reports/statistics_by_country.hql
```

Workflow:

Total_Basic_Metrics_Country. Part of Total_Daily coordinator

Sql destination:

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StageDb.exp_factbasicmetrics
Script body:
ADD jar hdfs://PSBIHNN001/user/bi.user/scripts/csv-serde.jar;
SET hive.exec.dvnamic.partition.mode=nonstrict:
SET hive.exec.max.dynamic.partitions = 100000;
SET hbase.client.scanner.caching = 1000;
SET hive.auto.convert.join = false;
 set CURRENT_TIMEZONE='GMT-03:00';
set LAST_REPORT_DATE='${LAST_REPORT_DATE_PARAM}';
set CURRENT_REPORT_DATE=date_sub(${hiveconf:LAST_REPORT_DATE}, 1);
set CUMKENI_KEPURI_DAIE=date_sub(${\text{hiveconf:LAST_REPORT_DATE}, 1)
set DAU_REPORT_DATE=date_sub(${\text{hiveconf:LAST_REPORT_DATE}, 1);
set WAU_REPORT_DATE=date_sub(${\text{hiveconf:LAST_REPORT_DATE}, 8);
set MAU_REPORT_DATE=concat(year(${\text{hiveconf:CURRENT_REPORT_DATE}),
set 30AGO_REPORT_DATE=date_sub(${\text{hiveconf:LAST_REPORT_DATE}, 31);
                                                                                                     '-', lpad(cast(month(${hiveconf:CURRENT_REPORT_DATE}) as STRING), 2, '0'), '-01');
drop table if exists tmp db.tmp dau country;
drop table if exists tmp_do.tmp_dau_country;
drop table if exists tmp_db.tmp_mau_country;
drop table if exists tmp_db.tmp_a0ago_country;
drop table if exists tmp_db.tmp_dni_country;
drop table if exists tmp_db.tmp_acu_country;
drop table if exists tmp_db.tmp_dni_country;
 drop table if exists tmp_db.tmp_acu_country
drop table if exists tmp_db.tmp_deu_country;
CREATE TABLE IF NOT EXISTS exp_db.exp_factbasicmetrics
   dni INT
   wau INT,
   mau INT,
last30 INT,
    acu INT,
   deu int,
   country STRING,
date TIMESTAMP
 PARTITIONED BY (year INT, month INT, day INT)
ROW FORMAT SERDE 'com.bizo.hive.serde.csv.CSVSerde'
WITH serdeproperties (
   "separatorChar" = ",",
   "quoteChar" = "'",
     "escapeChar"
STORED AS TEXTFILE:
CREATE TABLE IF NOT EXISTS impala_db.total_basic_metrics
   dau INT.
   dni INT,
   wau INT.
   mau INT,
   last30 INT.
   acu INT,
   deu int,
country STRING,
   date TIMESTAMP
 PARTITIONED BY (year INT, month INT, day INT)
STORED AS RCFILE;
CREATE TABLE IF NOT EXISTS tmp_db.tmp_returning_country
   date TIMESTAMP,
   country STRING,
STORED AS TEXTFILE;
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CREATE TABLE IF NOT EXISTS tmp_db.tmp_dau_country
       date TIMESTAMP,
       country STRING,
       count INT
  STORED AS TEXTFILE;
 CREATE TABLE IF NOT EXISTS tmp_db.tmp_wau_country
       date TIMESTAMP
       country STRING,
       count INT
  STORED AS TEXTFILE;
CREATE TABLE IF NOT EXISTS tmp_db.tmp_mau_country
       date TIMESTAMP
       country STRING,
       count INT
  STORED AS TEXTFILE;
CREATE TABLE IF NOT EXISTS tmp_db.tmp_30ago_country
       date TIMESTAMP
       country STRING,
       count INT
 STORED AS TEXTFILE;
 CREATE TABLE IF NOT EXISTS tmp_db.tmp_dni_country
       date TIMESTAMP
       country STRING,
       count INT
 STORED AS TEXTFILE;
CREATE TABLE IF NOT EXISTS tmp_db.tmp_acu_country
       date TIMESTAMP
       country STRING,
       count INT
 STORED AS TEXTFILE;
 CREATE TABLE IF NOT EXISTS tmp_db.tmp_deu_country
       date TIMESTAMP
       country STRING,
       count INT
 STORED AS TEXTFILE;
     - prepare profile table as file, cuz it is faster to read from it
drop table if exists tmp_db.total_profile_rcfile;
CREATE TABLE tmp_db.total_profile_rcfile STORED AS RCFILE AS
  select * from ods_db.total_profile;
  -- DEU
  INSERT OVERWRITE TABLE tmp_db.tmp_deu_country
  SELECT date, country, count(1) from
  (select distinct
             concat(to\_date(from\_utc\_timestamp(time, \$\{hiveconf: CURRENT\_TIMEZONE\})), '00:00:00') \ date, the state of t
             country,
            imei
       FROM
            staging_db.mobile_operational_data LATERAL VIEW explode(features) ft AS feature_id, feature_cnt
WHERE concat(year, '-', month, '-', day) >= to_date(${hiveconf:DAU_REPORT_DATE})
AND concat(year, '-', month, '-', day) <= to_date(${hiveconf:LAST_REPORT_DATE})</pre>
  AND concat(year, '-', month, '-', day) <= to_date(${naveconf:LASI_KEPURI_DATE})

AND from_utc_timestamp(time, ${hiveconf:CURRENT_TIMEZONE}) >= ${hiveconf:DAU_REPORT_DATE}

AND from_utc_timestamp(time, ${hiveconf:CURRENT_TIMEZONE}) <= ${hiveconf:LAST_REPORT_DATE}

and feature_id in ('1000','3010','6000','6008','33005','40001','45001','45002','45003','45004','45005','45006','45007','45008',

'45021','45032','45034','45037','45040','45043','45047','45051','45051','45057','45060','45063','55000','55001')
  ) s1
 GROUP by date, country;
  INSERT OVERWRITE TABLE tmp_db.tmp_dau_country
INSENT OVERWALLE TABLE TIMP_do.tmp_adu_country

SELECT concat(to_date(${hiveconf:cURRENT_REPORT_DATE}), ' ', '00:00:00') date, country, count(1) count

FROM (SELECT a.imei, b.country FROM ods_db.mobile_operational_user_activity a
GROUP BY country;
  -- DNI
 INSERT OVERWRITE TABLE tmp_db.tmp_dni_country
  SELECT concat(to_date(${hiveconf:CURRENT_REPORT_DATE}), ' ', '00:00:00') date, country, count(1) count
 FROM tmp_db.total_profile_rcfile
WHERE from_utc_timestamp(first_install, ${hiveconf:CURRENT_TIMEZONE}) >= ${hiveconf:DAU_REPORT_DATE}
AND from_utc_timestamp(first_install, ${hiveconf:CURRENT_TIMEZONE}) < ${hiveconf:LAST_REPORT_DATE}
 GROUP BY country;
INSERT OVERWRITE TABLE tmp_db.tmp_acu_country SELECT concat(to_date(${hiveconf:CURRENT_REPORT_DATE}), ' ', '00:00:00') date, country, count(1) count
  FROM tmp_db.total_profile_rcfile
 \label{lem:where from_utc_timestamp} \begin{tabular}{ll} &\label{lem:where from_utc_timestamp} &\label{lem:where from_utc_timestamp} &\label{lem:where from_utc_timestamp} &\label{lem:history} &\label{lem:where from_utc_timestamp} &\label{lem:history} &\label{
 GROUP BY country;
```

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-- WAU
 INSERT OVERWRITE TABLE tmp_db.tmp_wau_country SELECT concat(to_date(${hiveconf:CURRENT_REPORT_DATE}), ' ', '00:00:00') date, country, count(1) count
SELECT concat(to_date(${\text{hiveconf:CURRENT_REPORT_DATE}}), '', '08:08:00') date, country, count(1) count

FROM (SELECT a.imei, b.country) FROM ods_db.mobile_operational_user_activity a

JOIN tmp_db.total_profile_rcfile b ON a.imei = b.user_id

WHERE concat(year, '-', lpad(cast(month as string), 2, '0'), '-', lpad(cast(day as string), 2, '0')) >= to_date(${\text{hiveconf:WAU_REPORT_DATE}})

AND concat(year, '-', lpad(cast(month as string), 2, '0'), '-', lpad(cast(day as string), 2, '0')) <= to_date(${\text{hiveconf:WAU_REPORT_DATE}})

AND from_utc_timestamp(time, ${\text{hiveconf:CURRENT_TIMEZONE}}) >= ${\text{hiveconf:WAU_REPORT_DATE}}

AND from_utc_timestamp(time, ${\text{hiveconf:CURRENT_TIMEZONE}}) < ${\text{hiveconf:LAST_REPORT_DATE}}

AND from_utc_timestamp(time, ${\text{hiveconf:CURRENT_TIMEZONE}}) < ${\text{hiveconf:LAST_REPORT_DATE}}
 GROUP BY a.imei, b.country) d
GROUP BY country;
 -- 30ago
INSERT OVERWRITE TABLE tmp_db.tmp_30ago_country

SELECT concat(to_date(${\text{hiveconf:CURRENT_REPORT_DATE}}), ' ', '00:00:00') date, country, count(1) count

FROM (SELECT a.imei, b.country FROM ods_db.mobile_operational_user_activity a

JOIN tmp_db.total_profile_rcfile b ON a.imei = b.user_id

WHERE concat(year, '-', lpad(cast(month as string), 2, '0'), '-', lpad(cast(day as string), 2, '0')) >= to_date(${\text{hiveconf:30AGO_REPORT_DATE}})

AND concat(year, '-', lpad(cast(month as string), 2, '0'), '-', lpad(cast(day as string), 2, '0')) <= to_date(${\text{hiveconf:LAST_REPORT_DATE}})

AND from_utc_timestamp(time, ${\text{hiveconf:CURRENT_TIMEZONE}}) < ${\text{hiveconf:BAST_REPORT_DATE}}

GROUP BY a.imei, b.country) d
 GROUP BY a.imei, b.country) d
 GROUP BY country;
 -- MAU (month to date)
 INSERT OVERWRITE TABLE tmp_db.tmp_mau_country
SELECT concat(to_date(${hiveconf:CURRENT_REPORT_DATE}), ' ', '00:00:00') date, country, count(1) count
Select concat(to_aare(\${\niveconf:CURRENT_REPORT_DATE}), ' ', '00:00:00') date, country, count(1) count

FROM (SELECT a.imei, b.country FROM ods_db.mobile_operational_user_activity a

JOIN tmp_db.total_profile_rcfile b ON a.imei = b.user_id

WHERE concat(year, '-', lpad(cast(month as string), 2, '0'), '-', lpad(cast(day as string), 2, '0')) >= to_date(\${\niveconf:MAU_REPORT_DATE})

AND concat(year, '-', lpad(cast(month as string), 2, '0'), '-', lpad(cast(day as string), 2, '0')) <= to_date(\${\niveconf:MAU_REPORT_DATE})

AND from_utc_timestamp(time, \${\niveconf:CURRENT_TIMEZONE}) >= \${\niveconf:MAU_REPORT_DATE}

AND from_utc_timestamp(time, \${\niveconf:CURRENT_TIMEZONE}) < \${\niveconf:LAST_REPORT_DATE}

GROUP BY a imei h country d
GROUP BY a.imei, b.country) d
GROUP BY country;
 -- JOINING TABLES INTO ONE
INSERT OVERWRITE TABLE impala_db.total_basic_metrics PARTITION (year, month, day)
SELECT dau.count dau, dni.count dni, wau.count wau, mau.count mau, last30.count last30, acu.count acu, deu.count deu, dau.country, dau.date,
 year(dau.date), month(dau.date), day(dau.date)
FROM tmp_db.tmp_dau_country dau
       JOIN tmp_db.tmp_wau_country wau ON dau.country = wau.country
JOIN tmp_db.tmp_mau_country mau ON dau.country = mau.country
   JOIN tmp_db.tmp_ade_country data ON data.country = madi.country
JOIN tmp_db.tmp_dni_country dni ON data.country = dni.country
JOIN tmp_db.tmp_dci_country act ON data.country = act.country
JOIN tmp_db.tmp_deu_country det ON data.country = deta.country
 GROUP BY dau.count, dni.count, wau.count, mau.count, last30.count, acu.count, deu.count, dau.country, dau.date, year(dau.date), month(dau.date), day(dau.date);
  -- EXPORT TO CSV TABLE
INSERT OVERWRITE TABLE exp_db.exp_factbasicmetrics PARTITION (year, month, day)

SELECT dau, dni, wau, mau, last30, acu, deu, country, date, year, month, day

FROM impala_db.total_basic_metrics WHERE concat(year, '-', lpad(cast(month as string), 2, '0'), '-', lpad(cast(day as string), 2, '0')) = to_date(${hiveconf:CURRENT_REPORT
```

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