

Upgrad ETL Project

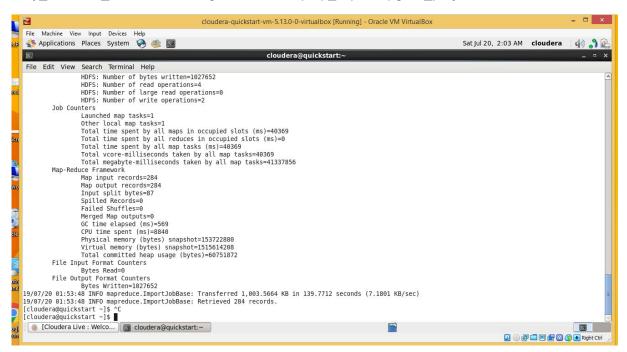
Data Ingestion from the RDS to HDFS using Sqoop



Sqoop Import command.

sqoop import --connect jdbc:mysql://upgradawsrds.cpclxrkdvwmz.us-east-

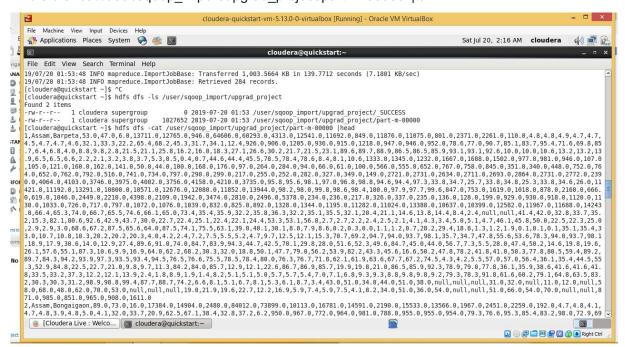
1.rds.amazonaws.com/indiaahs2012_13 --username upgraduser --password upgraduser --table Key_indicator_districtwise --target-dir /user/sqoop_import/upgrad_project -m 1

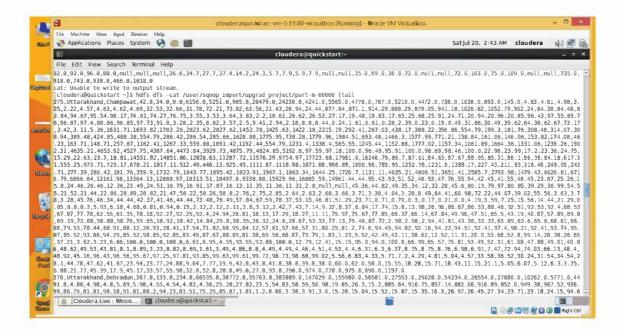




Command to see the list of imported data.

hdfs dfs -ls /user/sqoop_import/upgrad_project/ hdfs dfs -cat /user/sqoop_import/upgrad_project/part-m-00000 |head hdfs dfs -cat /user/sqoop_import/upgrad_project/part-m-00000 |tail





External table creation in Hive and loading the ingested data into it. Data ingestion verification.



Command to create the external table.

create external table health_survey(ID Int, State_Name String,

State_District_Name String,

AA Sample Units Total double,

AA Sample Units Rural double,

AA_Sample_Units_Urban double,

AA Households Total double,

AA Households Rural double,

AA Households Urban double,

AA_Population_Total double,

AA_Population_Rural double,

AA_Population_Urban double,

AA_Ever_Married_Women_Aged_15_49_Years_Total double,

AA_Ever_Married_Women_Aged_15_49_Years_Rural double,

AA_Ever_Married_Women_Aged_15_49_Years_Urban double,

AA_Currently_Married_Women_Aged_15_49_Years_Total double,

AA_Currently_Married_Women_Aged_15_49_Years_Rural double,

AA_Currently_Married_Women_Aged_15_49_Years_Urban double,

AA_Children_12_23_Months_Total double,

AA Children 12 23 Months Rural double,

AA Children 12 23 Months Urban double,

BB Average Household Size Sc Total double,

BB_Average_Household_Size_Sc_Rural double,

BB Average Household Size Sc Urban double,

BB Average Household Size St Total double,

BB_Average_Household_Size_St_Rural double,

BB_Average_Household_Size_St_Urban double,

BB Average Household Size All Total double,

BB_Average_Household_Size_All_Rural double,

BB_Average_Household_Size_All_Urban double,

BB_Population_Below_Age_15_Years_Total double,

BB_Population_Below_Age_15_Years_Rural double,

BB Population Below Age 15 Years Urban double,

BB Dependency Ratio Total double,

BB_Dependency_Ratio_Rural double,

BB Dependency Ratio Urban double,

BB Currently Married Illiterate Women Aged 15 49 Years Total double,

BB Currently Married Illiterate Women Aged 15 49 Years Rural double,

BB_Currently_Married_Illiterate_Women_Aged_15_49_Years_Urban double,

CC_Sex_Ratio_At_Birth_Total double,

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CC Sex Ratio At Birth Rural double,
CC Sex Ratio At Birth Urban double,
CC_Sex_Ratio_0_4_Years_Total double,
CC Sex Ratio 0 4 Years Rural double,
CC Sex Ratio 0 4 Years Urban double,
CC_Sex_Ratio_All_Ages_Total double,
CC Sex Ratio All Ages Rural double,
CC Sex Ratio All Ages Urban double,
DD Person Total double,
DD Person Rural double,
DD Person Urban double,
DD Male Total double,
DD Male Rural double,
DD Male Urban double,
DD Female Total double,
DD Female Rural double,
DD Female Urban double,
EE Marriages Among Females Below Legal Age 18 Years Total double,
EE Marriages Among Females Below Legal Age 18 Years Rural double,
EE Marriages Among Females Below Legal Age 18 Years Urban double,
EE Marriages Among Males Below Legal Age 21 Years Total double,
EE Marriages Among Males Below Legal Age 21 Years Rural double,
EE Marriages Among Males Below Legal Age 21 Years Urban double,
EE Married Women 20 24 Years Married Before 18 Years Total double,
EE Married Women 20 24 Years Married Before 18 Years Rural double,
EE Married Women 20 24 Years Married Before 18 Years Urban double,
EE Married Men 25 29 Years Married Before 21 Years Total double,
EE Married Men 25 29 Years Married Before 21 Years Rural double,
EE Married Men 25 29 Years Married Before 21 Years Urban double,
EE_Mean_Age_At_Marriage_Male_Total double,
EE Mean Age At Marriage Male Rural double,
EE Mean Age At Marriage Male Urban double,
EE Mean Age At Marriage Female Total double,
EE_Mean_Age_At_Marriage_Female_Rural double,
EE Mean Age At Marriage Female Urban double,
FF Children Attending School Age 6 17 Years Person Total double,
FF_Children_Attending_School_Age_6_17_Years_Person_Rural double,
FF_Children_Attending_School_Age_6_17_Years_Person_Urban double,
FF_Children_Attending_School_Age_6_17_Years_Male_Total double,
FF_Children_Attending_School_Age_6_17_Years_Male_Rural double,
FF_Children_Attending_School_Age_6_17_Years_Male_Urban double,
FF_Children_Attending_School_Age_6_17_Years_Female_Total double,
FF_Children_Attending_School_Age_6_17_Years_Female_Rural double,
FF Children Attending School Age 6 17 Years Female Urban double,
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FF Children Attended Before Drop Out Age 6 17 Years Person Total double,
FF_Children_Attended_Before_Drop_Out_Age_6_17_Years_Person_Rural double,
FF Children Attended Before Drop Out Age 6 17 Years Person Urban double,
FF Children Attended Before Drop Out Age 6 17 Years Male Total double,
FF Children Attended Before Drop Out Age 6 17 Years Male Rural double,
FF_Children_Attended_Before_Drop_Out_Age_6_17_Years_Male_Urban double,
FF Children Attended Before Drop Out Age 6 17 Years Female Total double,
FF Children Attended Before Drop Out Age 6 17 Years Female Rural double,
FF_Children_Attended_Before_Drop_Out_Age_6_17_Years_Female_Urban double,
GG Children Aged 5 14 Years Engaged In Work Person Total double,
GG Children Aged 5 14 Years Engaged In Work Person Rural double,
GG Children Aged 5 14 Years Engaged In Work Person Urban double,
GG Children Aged 5 14 Years Engaged In Work Male Total double,
GG_Children_Aged_5_14_Years_Engaged_In_Work_Male_Rural double,
GG Children Aged 5 14 Years Engaged In Work Male Urban double,
GG Children Aged 5 14 Years Engaged In Work Female Total double,
GG Children Aged 5 14 Years Engaged In Work Female Rural double,
GG Children Aged 5 14 Years Engaged In Work Female Urban double,
GG Work Participation Rate 15 Years And Above Person Total double,
GG Work Participation Rate 15 Years And Above Person Rural double,
GG Work Participation Rate 15 Years And Above Person Urban double,
GG Work Participation Rate 15 Years And Above Male Total double,
GG Work Participation Rate 15 Years And Above Male Rural double,
GG Work Participation Rate 15 Years And Above Male Urban double,
GG Work Participation Rate 15 Years And Above Female Total double,
GG Work Participation Rate 15 Years And Above Female Rural double,
GG Work Participation Rate 15 Years And Above Female Urban double,
HH Prevalence Disability Per 100000 Population Person Total double,
HH Prevalence Disability Per_100000_Population_Person_Rural double,
HH Prevalence Disability Per 100000 Population Person Urban double,
HH Prevalence Disability Per 100000 Population Male Total double,
HH Prevalence Disability Per 100000 Population Male Rural double,
HH Prevalence Disability Per 100000 Population Male Urban double,
HH Prevalence Disability Per 100000 Population Female Total double,
HH Prevalence Disability Per 100000 Population Female Rural double,
HH Prevalence Disability Per 100000 Population Female Urban double,
Il Injured By Type Of Treatment Per 100000 Severe Person Total double,
Il Injured By Type Of Treatment Per 100000 Severe Person Rural double,
Il Injured By Type Of Treatment Per 100000 Severe Person Urban double,
Il Injured By Type Of Treatment Per 100000 Severe Male Total double,
Il Injured By Type Of Treatment Per 100000 Severe Male Rural double,
II_Injured_By_Type_Of_Treatment_Per_100000_Severe_Male_Urban double,
Il Injured By Type Of Treatment Per 100000 Severe Female Total double,
Il Injured By Type Of Treatment Per 100000 Severe Female Rural double,
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Il Injured By Type Of Treatment Per 100000 Severe Female Urban double,
Il Injured By Type Of Treatment Per 100000 Major Person Total double,
Il Injured By Type Of Treatment Per 100000 Major Person Rural double,
Il Injured By Type Of Treatment Per 100000 Major Person Urban double,
Il Injured By Type Of Treatment Per 100000 Major Male Total double,
Il Injured By Type Of Treatment Per 100000 Major Male Rural double,
Il Injured By Type Of Treatment Per 100000 Major Male Urban double,
Il Injured By Type Of Treatment Per 100000 Major Female Total double,
Il Injured By Type Of Treatment Per 100000 Major Female Rural double,
Il_Injured_By_Type_Of_Treatment_Per_100000_Major_Female_Urban double,
Il Injured By Type Of Treatment Per 100000 Minor Person Total double,
Il Injured By Type Of Treatment Per 100000 Minor Person Rural double,
Il Injured By Type Of Treatment Per 100000 Minor Person Urban double,
Il Injured By Type Of Treatment Per 100000 Minor Male Total double,
Il Injured By Type Of Treatment Per 100000 Minor Male Rural double,
Il Injured By Type Of Treatment Per 100000 Minor Male Urban double,
Il Injured By Type Of Treatment Per 100000 Minor Female Total double,
II_Injured_By_Type_Of_Treatment_Per_100000_Minor_Female_Rural double,
Il Injured By Type Of Treatment Per 100000 Minor Female Urban double,
JJ Acute Illness Per 100000 Diarrhoea Dysentery Person Total double,
JJ Acute Illness Per 100000 Diarrhoea Dysentery Person Rural double,
JJ Acute Illness Per 100000 Diarrhoea Dysentery Person Urban double,
JJ Acute Illness Per 100000 Diarrhoea Dysentery Male Total double,
JJ Acute Illness Per 100000 Diarrhoea Dysentery Male Rural double,
JJ Acute Illness Per 100000 Diarrhoea Dysentery Male Urban double,
JJ Acute Illness Per 100000 Diarrhoea Dysentery Female Total double,
JJ Acute Illness Per 100000 Diarrhoea Dysentery Female Rural double,
JJ Acute Illness Per 100000 Diarrhoea Dysentery Female Urban double,
JJ Acute Illness Per 100000 Respiratory Infection Person Total double,
JJ_Acute_Illness_Per_100000_Respiratory_Infection_Person_Rural double,
JJ Acute Illness Per 100000 Respiratory Infection Person Urban double,
JJ Acute Illness Per 100000 Respiratory Infection Male Total double,
JJ Acute Illness Per 100000 Respiratory Infection Male Rural double,
JJ Acute Illness Per 100000 Respiratory Infection Male Urban double,
JJ Acute Illness Per 100000 Respiratory Infection Female Total double,
JJ Acute Illness Per 100000 Respiratory Infection Female Rural double,
JJ Acute Illness Per 100000 Respiratory Infection Female Urban double,
JJ Acute Illness Per 100000 Fever All Types Person Total double,
JJ Acute Illness Per 100000 Fever All Types Person Rural double,
JJ Acute Illness Per 100000 Fever All Types Person Urban double,
JJ Acute Illness Per 100000 Fever All Types Male Total double,
JJ Acute Illness Per 100000 Fever All Types Male Rural double,
JJ Acute Illness Per 100000 Fever All Types Male Urban double,
JJ Acute Illness Per 100000 Fever All Types Female Total double,
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JJ Acute Illness Per 100000 Fever All Types Female Rural double,
JJ Acute Illness Per 100000 Fever All Types Female Urban double,
JJ_Acute_Illness_Per_100000_Any_Type_Of_Acute_Person_Total double,
JJ Acute Illness Per 100000 Any Type Of Acute Person Rural double,
JJ Acute Illness Per 100000 Any Type Of Acute Person Urban double,
JJ_Acute_Illness_Per_100000_Any_Type_Of_Acute_Male_Total double,
JJ_Acute_Illness_Per_100000_Any_Type_Of_Acute_Male_Rural double,
JJ Acute Illness Per 100000 Any Type Of Acute Male Urban double,
JJ_Acute_Illness_Per_100000_Any_Type_Of_Acute_Female_Total double,
JJ_Acute_Illness_Per_100000_Any_Type_Of_Acute_Female_Rural double,
JJ_Acute_Illness_Per_100000_Any_Type_Of_Acute_Female_Urban double,
JJ Acute Illness And Taking Treatment Person Total double,
JJ Acute Illness And Taking Treatment Person Rural double,
JJ Acute Illness And Taking Treatment Person Urban double,
JJ Acute Illness And Taking Treatment Male Total double,
JJ Acute Illness And Taking Treatment Male Rural double,
JJ Acute Illness And Taking Treatment Male Urban double,
JJ Acute Illness And Taking Treatment Female Total double,
JJ Acute Illness And Taking Treatment Female Rural double,
JJ Acute Illness And Taking Treatment Female Urban double,
JJ Acute Illness And Taking Treatment Government Person Total double,
JJ Acute Illness And Taking Treatment Government Person Rural double,
JJ Acute Illness And Taking Treatment Government Person Urban double,
JJ Acute Illness And Taking Treatment Government Male Total double,
JJ Acute Illness And Taking Treatment Government Male Rural double,
JJ Acute Illness And Taking Treatment Government Male Urban double,
JJ Acute Illness And Taking Treatment Government Female Total double,
JJ Acute Illness And Taking Treatment Government Female Rural double,
JJ Acute Illness And Taking Treatment Government Female Urban double,
KK_Symptoms_Of_Chronic_Illness_Per_100000_Person_Total double,
KK Symptoms Of Chronic Illness Per 100000 Person Rural double,
KK Symptoms Of Chronic Illness Per 100000 Person Urban double,
KK Symptoms Of Chronic Illness Per 100000 Male Total double,
KK Symptoms Of Chronic Illness Per 100000 Male Rural double,
KK Symptoms Of Chronic Illness Per 100000 Male Urban double,
KK Symptoms Of Chronic Illness Per 100000 Female Total double,
KK Symptoms Of Chronic Illness Per 100000 Female Rural double,
KK Symptoms Of Chronic Illness Per 100000 Female Urban double,
KK Chronic Illness And Sought Medical Care Person Total double,
KK Chronic Illness And Sought Medical Care Person Rural double,
KK Chronic Illness And Sought Medical Care Person Urban double,
KK Chronic Illness And Sought Medical Care Male Total double,
KK Chronic Illness And Sought Medical Care Male Rural double,
KK Chronic Illness And Sought Medical Care Male Urban double,
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KK Chronic Illness And Sought Medical Care Female Total double,
KK Chronic Illness And Sought Medical Care Female Rural double,
KK Chronic Illness And Sought Medical Care Female Urban double,
KK Diag For Chronic III Per 100000 Diabetes Person Total double,
KK Diag For Chronic III Per_100000_Diabetes_Person_Rural double,
KK Diag For Chronic III Per 100000 Diabetes Person Urban double,
KK Diag For Chronic III Per 100000 Diabetes Male Total double,
KK Diag For Chronic III Per 100000 Diabetes Male Rural double,
KK Diag For Chronic III Per 100000 Diabetes Male Urban double,
KK Diag For Chronic III Per 100000 Diabetes Female Total double,
KK Diag For Chronic III Per 100000 Diabetes Female Rural double,
KK Diag For Chronic III Per 100000 Diabetes Female Urban double,
KK Diag For Chronic III Per 100000 Hypertension Person Total double,
KK_Diag_For_Chronic_III_Per_100000_Hypertension_Person_Rural double,
KK Diag For Chronic III Per 100000 Hypertension Person Urban double,
KK Diag For Chronic III Per 100000 Hypertension Male Total double,
KK Diag For Chronic III Per 100000 Hypertension Male Rural double,
KK Diag For Chronic III Per 100000 Hypertension Male Urban double,
KK Diag For Chronic III Per 100000 Hypertension Female Total double,
KK Diag For Chronic III Per 100000 Hypertension Female Rural double,
KK Diag For Chronic III Per 100000 Hypertension Female Urban double,
KK_Diag_For_Chronic_III_Per_100000_Tb_Person_Total double,
KK Diag For Chronic III Per 100000 Tb Person Rural double,
KK Diag For Chronic III Per 100000 Tb Person Urban double,
KK Diag For Chronic III Per 100000 Tb Male Total double,
KK_Diag_For_Chronic_III_Per_100000_Tb_Male_Rural double,
KK Diag For Chronic III Per 100000 Tb Male Urban double,
KK Diag For Chronic III Per 100000 Tb Female Total double,
KK Diagnosed For Chronic_Illness_Per_100000_Tb_Female_Rural double,
KK Diagnosed For Chronic Illness Per 100000 Tb Female Urban double,
KK Diagnosed For Chronic Illness Per 100000 Asthma Person Total double,
KK Diagnosed For Chronic Illness Per 100000 Asthma Person Rural double,
KK Diagnosed For Chronic Illness Per 100000 Asthma Person Urban double,
KK Diagnosed For Chronic Illness Per 100000 Asthma Male Total double,
KK Diagnosed For Chronic Illness Per 100000 Asthma Male Rural double,
KK Diagnosed For Chronic Illness Per 100000 Asthma Male Urban double,
KK Diagnosed For Chronic Illness Per 100000 Asthma Female Total double,
KK Diagnosed For Chronic Illness Per 100000 Asthma Female Rural double,
KK Diagnosed For Chronic Illness Per 100000 Asthma Female Urban double,
KK Diag For Chronic Illness Per 100000 Arthritis Person Total double,
KK Diag For Chronic Illness Per 100000 Arthritis Person Rural double,
KK Diag For Chronic Illness Per 100000 Arthritis Person Urban double,
KK Diag For Chronic Illness Per 100000 Arthritis Male Total double,
KK Diag For Chronic Illness Per 100000 Arthritis Male Rural double,
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KK Diag For Chronic Illness Per 100000 Arthritis Male Urban double,
KK Diag For Chronic Illness Per 100000 Arthritis Female Total double,
KK Diag For Chronic Illness Per 100000 Arthritis Female Rural double,
KK Diag For Chronic Illness Per 100000 Arthritis Female Urban double,
KK Diag For Chronic Illness Per 100000 Any Kind Person Total double,
KK Diag For Chronic Illness Per 100000 Any Kind Person Rural double,
KK Diag For Chronic Illness Per 100000 Any Kind Of Person Urban double,
KK Diag For Chronic Illness Per 100000 Any Kind Of Male Total double,
KK Diag For Chronic Illness Per 100000 Any Kind Of Male Rural double,
KK Diag For Chronic Illness Per 100000 Any Kind Of Male Urban double,
KK Diag For Chronic Illness Per 100000 Any Kind Of Female Total double,
KK Diag For Chronic Illness Per 100000 Any Kind Of Female Rural double,
KK Diag For Chronic Illness Per 100000 Any Kind Of Female Urban double,
KK Chronic Illness And Getting Regular Treatment Person Total double,
KK Chronic Illness And Getting Regular Treatment Person Rural double,
KK Chronic Illness And Getting Regular Treatment Person Urban double,
KK Chronic Illness And Getting Regular Treatment Male Total double,
KK_Chronic_Illness_And_Getting_Regular_Treatment_Male_Rural double,
KK Chronic Illness And Getting Regular Treatment Male Urban double,
KK Chronic Illness And Getting Regular Treatment Female Total double,
KK Chronic Illness And Getting Regular Treatment Female Rural double,
KK Chronic Illness And Getting Regular Treatment Female Urban double,
KK Chronic III And Getting Regular Treatment Govt Person Total double,
KK Chronic III And Getting Regular Treatment Govt Person Rural double,
KK Chronic III And Getting Regular Treatment Govt Person Urban double,
KK Chronic III And Getting Regular Treatment Govt Male Total double,
KK Chronic III And Getting Regular Treatment Govt Male Rural double,
KK Chronic III And Getting Regular Treatment Govt Male Urban double,
KK Chronic III And Getting Regular Treatment Govt Female Total double,
KK Chronic III And Getting Regular Treatment Govt Female Rural double,
KK Chronic III And Getting Regular Treatment Govt Female Urban double,
LL Crude Birth Rate Cbr Total double,
LL Crude Birth Rate Cbr Rural double,
LL Crude Birth Rate Cbr Urban double,
LL Natural Growth Rate Total double,
LL Natural Growth Rate Rural double,
LL Natural Growth Rate Urban double,
LL Total Fertility Rate Total double,
LL Total Fertility Rate Rural double,
LL Total Fertility Rate Urban double,
LL_Women_20_24_Reporting_Birth_Of_Order_2__Above_Total double,
LL_Women_20_24_Reporting_Birth_Of_Order_2__Above_Rural double,
LL Women 20 24 Reporting Birth Of Order 2 Above Urban double,
LL Women Reporting Birth Of Order 3 Above Total double,
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LL_Women_Reporting_Birth_Of_Order_3__Above_Rural double,
LL_Women_Reporting_Birth_Of_Order_3__Above_Urban double,
LL Women With Two Children Wanting No More Children Total double,
LL Women With Two Children Wanting No More Children Rural double,
LL Women With Two Children Wanting No More Children Urban double,
LL Women 15 19 Years Who Were Already Mothers Or Pregnant Total double,
LL Women 15 19 Years Who Were Already Mothers Or Pregnant Rural double,
LL Women 15 19 Years Who Were Already Mothers Or Pregnant Urban double,
LL Median Age At First Live Birth Of Women 15 49 Years Total double,
LL Median Age At First Live Birth Of Women 15 49 Years Rural double,
LL Median Age At First Live Birth Of Women 15 49 Years Urban double,
LL Median Age At First Live Birth Of Women 25 49 Years Total double,
LL Median Age At First Live Birth Of Women 25 49 Years Rural double,
LL Median Age At First Live Birth Of Women 25 49 Years Urban double,
LL Live Births Taking Place After An Interval Of 36 Months Total double,
LL Live Births Taking Place After An Interval Of 36 Months Rural double,
LL Live Births Taking Place After An Interval Of 36 Months Urban double,
LL Mean Number Of Children Ever Born To Women 15 49 Years Total double,
LL Mean Number Of Children Ever Born To Women 15 49 Years Rural double,
LL Mean Number Of Children Ever Born To Women 15 49 Years Urban double,
LL Mean Number Of Children Surviving To Women 15 49 Years Total double,
LL Mean Number Of Children Surviving To Women 15 49 Years Rural double,
LL Mean Number Of Children Surviving To Women 15 49 Years Urban double,
LL Mean Number Of Children Ever Born To Women 45 49 Years Total double,
LL Mean Number Of Children Ever Born To Women 45 49 Years Rural double,
LL Mean Number Of Children Ever Born To Women 45 49 Years Urban double,
MM Pregnancy To Women 15 49 Years Resulting In Abortion Total double,
MM Pregnancy To Women 15 49 Years Resulting In Abortion Rural double,
MM Pregnancy To Women 15 49 Years Resulting In Abortion Urban double,
MM_Women_Who_Received_Any_Anc_Before_Abortion_Total double,
MM Women Who Received Any Anc Before Abortion Rural double,
MM Women Who Received Any Anc Before Abortion Urban double,
MM Women Who Went For Ultrasound Before Abortion Total double,
MM Women Who Went For Ultrasound Before Abortion Rural double,
MM Women Who Went For Ultrasound Before Abortion Urban double,
MM Average Month Of Pregnancy At The Time Of Abortion Total double,
MM Average Month Of Pregnancy At The Time Of Abortion Rural double,
MM_Average_Month_Of_Pregnancy_At_The_Time_Of_Abortion_Urban double,
MM Abortion Performed By Skilled Health Personnel Total double,
MM Abortion Performed By Skilled Health Personnel Rural double,
MM Abortion Performed By Skilled Health Personnel Urban double,
MM Abortion Taking Place In Institution Total double,
MM Abortion Taking Place In Institution Rural double,
MM Abortion Taking Place In Institution Urban double,
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NN Current Usage Any Method Total double,
NN Current Usage Any Method Rural double,
NN Current Usage Any Method Urban double,
NN Current Usage Any Modern Method Total double,
NN Current Usage Any Modern Method Rural double,
NN Current Usage Any Modern Method Urban double,
NN Current Usage Female Sterilization Total double,
NN Current Usage Female Sterilization Rural double,
NN Current Usage Female Sterilization Urban double,
NN_Current_Usage_Male_Sterilization_Total double,
NN Current Usage Male Sterilization Rural double,
NN Current Usage Male Sterilization Urban double,
NN Current Usage Copper T lud Total double,
NN_Current_Usage_Copper_T_lud_Rural double,
NN Current Usage Copper T lud Urban double,
NN Current Usage Pills Total double,
NN Current Usage Pills Rural double,
NN Current Usage Pills Urban double,
NN Current Usage Condom Nirodh Total double,
NN Current Usage Condom Nirodh Rural double,
NN Current Usage Condom Nirodh Urban double,
NN Current Usage Emergency Contraceptive Pills Total double,
NN Current Usage Emergency Contraceptive Pills Rural double,
NN Current Usage Emergency Contraceptive Pills Urban double,
NN Current Usage Any Traditional Method Total double,
NN Current Usage Any Traditional Method Rural double,
NN Current Usage Any Traditional Method Urban double,
NN Current Usage Periodic Abstinence Total double,
NN Current Usage Periodic Abstinence Rural double,
NN Current Usage Periodic Abstinence Urban double,
NN Current Usage Withdrawal Total double,
NN Current Usage Withdrawal Rural double,
NN Current Usage Withdrawal Urban double,
NN_Current_Usage_Lam_Total double,
NN Current Usage Lam Rural double,
NN Current Usage Lam Urban double,
OO Unmet Need For Spacing Total double,
OO Unmet Need For Spacing Rural double,
OO Unmet Need For Spacing Urban double,
OO Unmet Need For Limiting Total double,
OO Unmet Need For Limiting Rural double,
OO Unmet Need For Limiting Urban double,
OO Total Unmet Need Total double,
OO Total Unmet Need Rural double,
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OO Total Unmet Need Urban double,
PP_Married_Pregnant_Women_15_49_Years_Registered_For_Anc_Total double,
PP_Married_Pregnant_Women_15_49_Years_Registered_For_Anc_Rural double,
PP_Married_Pregnant_Women_15_49_Years_Registered_For_Anc_Urban double,
PP_Mothers_Who_Received_Any_Antenatal_Check_Up_Total double,
PP_Mothers_Who_Received_Any_Antenatal_Check_Up_Rural double,
PP_Mothers_Who_Received_Any_Antenatal_Check_Up_Urban double,
PP_Mothers_Who_Had_Antenatal_Check_Up_In_First_Trimester_Total double,
PP_Mothers_Who_Had_Antenatal_Check_Up_In_First_Trimester_Rural double,
PP_Mothers_Who_Had_Antenatal_Check_Up_In_First_Trimester_Urban double,
PP_Mothers_Who_Received_3_Or_More_Antenatal_Care_Total double,
PP_Mothers_Who_Received_3_Or_More_Antenatal_Care_Rural double,
PP_Mothers_Who_Received_3_Or_More_Antenatal_Care_Urban double,
PP_Mothers_Who_Received_At_Least_One_Tt_Injection_Total double,
PP_Mothers_Who_Received_At_Least_One_Tt_Injection_Rural double,
PP_Mothers_Who_Received_At_Least_One_Tt_Injection_Urban double,
PP_Mothers_Who_Consumed_Ifa_For_100_Days_Or_More_Total double,
PP_Mothers_Who_Consumed_lfa_For_100_Days_Or_More_Rural double,
PP_Mothers_Who_Consumed_Ifa_For_100_Days_Or_More_Urban double,
PP_Mothers_Who_Had_Full_Antenatal_Check_Up_Total double,
PP_Mothers_Who_Had_Full_Antenatal_Check_Up_Rural double,
PP_Mothers_Who_Had_Full_Antenatal_Check_Up_Urban double,
PP_Mothers_Who_Received_Anc_From_Govt_Source_Total double,
PP_Mothers_Who_Received_Anc_From_Govt_Source_Rural double,
PP_Mothers_Who_Received_Anc_From_Govt_Source_Urban double,
PP_Mothers_Whose_Blood_Pressure_Bp_Taken_Total double,
PP_Mothers_Whose_Blood_Pressure_Bp_Taken_Rural double,
PP_Mothers_Whose_Blood_Pressure_Bp_Taken_Urban double,
PP_Mothers_Whose_Blood_Taken_For_Hb_Total double,
PP_Mothers_Whose_Blood_Taken_For_Hb_Rural double,
PP_Mothers_Whose_Blood_Taken_For_Hb_Urban double,
PP_Mothers_Who_Underwent_Ultrasound_Total double,
PP_Mothers_Who_Underwent_Ultrasound_Rural double,
PP_Mothers_Who_Underwent_Ultrasound_Urban double,
QQ_Institutional_Delivery_Total double,
QQ_Institutional_Delivery_Rural double,
QQ_Institutional_Delivery_Urban double,
QQ_Delivery_At_Government_Institution_Total double,
QQ_Delivery_At_Government_Institution_Rural double,
QQ_Delivery_At_Government_Institution_Urban double,
QQ_Delivery_At_Private_Institution_Total double,
QQ_Delivery_At_Private_Institution_Rural double,
QQ_Delivery_At_Private_Institution_Urban double,
QQ_Delivery_At_Home_Total double,
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QQ Delivery At Home Rural double,
QQ Delivery At Home Urban double,
QQ Delivery At Home Conducted By Skilled Health Personnel Total double,
QQ Delivery At Home Conducted By Skilled Health Personnel Rural double,
QQ Delivery At Home Conducted By Skilled Health Personnel Urban double,
QQ Safe Delivery Total double,
QQ_Safe_Delivery_Rural double,
QQ Safe Delivery Urban double,
QQ_Caesarean_Out_Of_Total_Delivery_In_Government_Total double,
QQ_Caesarean_Out_Of_Total_Delivery_In_Government_Rural double,
QQ Caesarean Out Of Total Delivery In Government Urban double,
QQ Caesarean Out Of Total Delivery In Private Total double,
QQ Caesarean Out Of Total Delivery In Private Rural double,
QQ_Caesarean_Out_Of_Total_Delivery_In_Private_Urban double,
RR_Less_Than_24_Hrs_Stay_In_Institution_After_Delivery_Total double,
RR Less Than 24 Hrs Stay In Institution After Delivery Rural double,
RR Less Than 24 Hrs Stay In Institution After Delivery Urban double,
RR_Mothers_Who_Received_Within_48_Hrs_Of_Delivery_Total double,
RR Mothers Who Received Within 48 Hrs Of Delivery Rural double,
RR Mothers Who Received Within 48 Hrs Of Delivery Urban double,
RR Mothers Who Received Within 1 Week Of Delivery Total double,
RR_Mothers_Who_Received_Within_1_Week_Of_Delivery_Rural double,
RR_Mothers_Who_Received_Within_1_Week_Of_Delivery_Urban double,
RR Mothers Who Did Not Receive Any Post Natal Check Up Total double,
RR_Mothers_Who_Did_Not_Receive_Any_Post_Natal_Check_Up_Rural double,
RR_Mothers_Who_Did_Not_Receive_Any_Post_Natal_Check_Up_Urban double,
RR New Borns Who Were Checked Up Within 24 Hrs Of Birth Total double,
RR New Borns Who Were Checked Up Within 24 Hrs Of Birth Rural double,
RR New Borns Who Were Checked Up Within 24 Hrs Of Birth Urban double,
SS_Availed_Financial_Assistance_For_Delivery_Under_Jsy_Total double,
SS Availed Financial Assistance For Delivery Under Jsy Rural double,
SS Availed Financial Assistance For Delivery Under Jsy Urban double,
SS Availed Financial Assis For Inst Delivery Under Jsy Total double,
SS_Availed_Financial_Assis_For_Inst_Delivery_Under_Jsy_Rural double,
SS_Availed_Financial_Assis_For_Inst_Delivery_Under_Jsy_Urban double,
SS Availed Financial Assis For Govt Delivery Under Jsy Total double,
SS Availed Financial Assis For Govt Delivery Under Jsy Rural double,
SS_Availed_Financial_Assis_For_Govt_Delivery_Under_Jsy_Urban double,
TT Children Aged 12 23 Months Having Immunization Card Total double,
TT Children Aged 12 23 Months Having Immunization Card Rural double,
TT_Children_Aged_12_23_Months_Having_Immunization_Card_Urban double,
TT_Children_Aged_12_23_Months_Who_Have_Received_Bcg_Total double,
TT Children Aged 12 23 Months Who Have Received Bcg Rural double,
TT Children Aged 12 23 Months Who Have Received Bcg Urban double,
```

```
TT Children 12 23 Months Received 3 Doses Of Polio Vaccine Total double,
TT Children 12 23 Months Received 3 Doses Of Polio Vaccine Rural double,
TT Children 12 23 Months Received 3 Doses Of Polio Vaccine Urban double,
TT Children 12 23 Months Received 3 Doses Of Dpt Vaccine Total double,
TT Children 12 23 Months Received 3 Doses Of Dpt Vaccine Rural double,
TT Children 12 23 Months Received 3 Doses Of Dpt Vaccine Urban double,
TT Children Aged 12 23 Months Received Measles Vaccine Total double,
TT Children Aged 12 23 Months Received Measles Vaccine Rural double,
TT Children Aged 12 23 Months Received Measles Vaccine Urban double,
TT Children Aged 12 23 Months Fully Immunized Total double,
TT Children Aged 12 23 Months Fully Immunized Rural double,
TT Children Aged 12 23 Months Fully Immunized Urban double,
TT Children Who Have Received Polio Dose At Birth Total double,
TT Children Who Have Received Polio Dose At Birth Rural double,
TT Children Who Have Received Polio Dose At Birth Urban double,
TT Children Who Did Not Receive Any Vaccination Total double,
TT Children Who Did Not Receive Any Vaccination Rural double,
TT_Children_Who_Did_Not_Receive_Any_Vaccination_Urban double,
TT_Children_6_35_Mon_At_Least_1_Vit_A_Dose_Last_6_Months_Total double,
TT Children 6 35 Mon At Least 1 Vit A Dose Last 6 Months Rural double,
TT Children 6 35 Mon At Least 1 Vit A Dose Last 6 Months Urban double,
TT Children 6 35 Mon Ifa Tablets Syrup Last 3 Months Total double,
TT Children 6 35 Mon Ifa Tablets Syrup Last 3 Months Rural double,
TT Children 6 35 Mon Ifa Tablets Syrup Last 3 Months Urban double,
TT Children Whose Birth Weight Was Taken Total double,
TT Children Whose Birth Weight Was Taken Rural double,
TT Children Whose Birth Weight Was Taken Urban double,
TT Children With Birth Weight Less Than 2 5 Kg Total double,
TT Children With Birth Weight Less Than 2 5 Kg Rural double,
TT Children With Birth Weight Less Than 2 5 Kg Urban double,
UU Children Suffering From Diarrhoea Total double,
UU Children Suffering From Diarrhoea Rural double,
UU Children Suffering From Diarrhoea Urban double,
UU Children Diarrhoea Who Received Haf Ors Ort Total double,
UU Children Diarrhoea Who Received Haf Ors Ort Rural double,
UU Children Diarrhoea Who Received Haf Ors Ort Urban double,
UU Children Suffering From Acute Respiratory Infection Total double,
UU Children Suffering From Acute Respiratory Infection Rural double,
UU Children Suffering From Acute Respiratory Infection Urban double,
UU Children Acute Respiratory Infection Sought Treatment Total double,
UU Children Acute Respiratory Infection Sought Treatment Rural double,
UU Children Acute Respiratory Infection Sought Treatment Urban double,
UU Children Suffering From Fever Total double,
UU Children Suffering From Fever Rural double,
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UU Children Suffering From Fever Urban double,
UU Children Suffering From Fever Who Sought Treatment Total double,
UU Children Suffering From Fever Who Sought Treatment Rural double,
UU Children Suffering From Fever Who Sought Treatment Urban double,
VV Children Breastfed Within One Hour Of Birth Total double,
VV Children Breastfed Within One Hour Of Birth Rural double,
VV Children Breastfed Within One Hour Of Birth Urban double,
VV Children 6 35 Mon Excl Breastfed For At Least 6 Mon Total double,
VV_Children_6_35_Mon_Excl_Breastfed_For_At_Least_6_Mon_Rural double,
VV Children 6 35 Mon Excl Breastfed For At Least 6 Mon Urban double,
VV Other Than Breast Milk During First 6 Months Water Total double,
VV Other Than Breast Milk During First 6 Months Water Rural double,
VV Other Than Breast Milk During First 6 Months Water Urban double,
VV 1st 6 Months Animal_Formula_Milk_Total double,
VV 1st 6 Months Animal Formula Milk Rural double,
VV 1st 6 Months Animal Formula Milk Urban double,
VV 1st 6 Months Semi Solid Mashed Food Total double,
VV 1st 6 Months Semi Solid Mashed Food Rural double,
VV 1st 6 Months Semi Solid Mashed Food Urban double,
VV 1st 6 Months Solid Adult Food Total double,
VV 1st 6 Months Solid Adult Food Rural double,
VV 1st 6 Months Solid Adult Food Urban double,
VV 1st 6 Months Vegetables Fruits Total double,
VV 1st 6 Months Vegetables Fruits Rural double,
VV 1st 6 Months Vegetables Fruits Urban double,
VV Avg Month Other Than Breast Milk Water Total double,
VV Avg Month Other Than Breast Milk Water Rural double,
VV Avg Month Other Than Breast Milk Water Urban double,
VV Avg Month Other Than Breast Milk Animal Formula Milk Total double,
VV Avg Month Other Than Breast Milk Animal Formula Milk Rural double,
VV Avg Month Other Than Breast Milk Animal Formula Milk Urban double,
VV Avg Month Other Than Breast Milk Semi Solid Mashed Food Total double,
VV Avg Month Other Than Breast Milk Semi Solid Mashed Food Rural double,
VV_Avg_Month_Other_Than_Breast_Milk_Semi_Solid_Mashed_Food_Urban double,
VV Avg Month Other Than Breast Milk Solid Adult Food Total double,
VV Avg Month Other Than Breast Milk Solid Adult Food Rural double,
VV Avg Month Other Than Breast Milk Solid Adult Food Urban double,
VV Avg Month Other Than Breast Milk Vegetables Fruits Total double,
VV Avg Month Other Than Breast Milk Vegetables Fruits Rural double,
VV Avg Month Other Than Breast Milk Vegetables Fruits Urban double,
WW Birth Registered Total double,
WW Birth Registered Rural double,
WW Birth Registered Urban double,
WW Children Registered And Received Birth Certificate Total double,
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```
WW Children Registered And Received Birth Certificate Rural double,
WW Children Registered And Received Birth Certificate Urban double,
XX Women Who Are Aware Of Hiv Aids Total double,
XX Women Who Are Aware Of Hiv Aids Rural double,
XX Women Who Are Aware Of Hiv Aids Urban double,
XX Women Who Are Aware Of Rti Sti Total double,
XX Women Who Are Aware Of Rti Sti Rural double,
XX Women Who Are Aware Of Rti Sti Urban double,
XX Women Who Are Aware Of Haf Ors Ort Zinc Total double,
XX Women Who Are Aware Of Haf Ors Ort Zinc Rural double,
XX Women Who Are Aware Of Haf Ors Ort Zinc Urban double,
XX Women Who Are Aware Of Danger Signs Of Ari Pneumonia Total double,
XX Women Who Are Aware Of Danger Signs Of Ari Pneumonia Rural double,
XX Women Who Are Aware Of Danger Signs Of Ari Pneumonia Urban double,
YY Crude Death Rate Cdr Total Person double,
YY Crude Death Rate Cdr Total Male double,
YY Crude Death Rate Cdr Total Female double,
YY_Crude_Death_Rate_Cdr_Rural_Person double,
YY Crude Death Rate Cdr Rural Male double,
YY Crude Death Rate Cdr Rural Female double,
YY Crude Death Rate Cdr Urban Person double,
YY Crude Death Rate Cdr Urban Male double,
YY Crude Death Rate Cdr Urban Female double,
YY Infant Mortality Rate Imr Total Person double,
YY Infant Mortality Rate Imr Total Male double,
YY Infant Mortality Rate Imr Total Female double,
YY Infant Mortality Rate Imr Rural Person double,
YY Infant Mortality Rate Imr Rural Male double,
YY Infant Mortality Rate Imr Rural Female double,
YY Infant Mortality Rate Imr Urban Person double,
YY Infant Mortality Rate Imr Urban Male double,
YY Infant Mortality Rate Imr Urban Female double,
YY Neo Natal Mortality Rate Total double,
YY Neo Natal Mortality Rate Rural double,
YY Neo Natal Mortality Rate Urban double,
YY Post Neo Natal Mortality Rate Total double,
YY Post Neo Natal Mortality Rate Rural double,
YY Post Neo Natal Mortality Rate Urban double,
YY Under Five Mortality Rate U5MR Total Person double,
YY Under Five Mortality Rate U5MR Total Male double,
YY_Under_Five_Mortality_Rate_U5MR_Total_Female double,
YY Under Five Mortality Rate U5MR Rural Person double,
YY Under Five Mortality Rate U5MR Rural Male double,
YY Under Five Mortality Rate U5MR Rural Female double,
```

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YY Under Five Mortality Rate U5MR Urban Person double,
YY Under Five Mortality Rate U5MR Urban Male double,
YY Under Five Mortality Rate U5MR Urban Female double,
ZZ Crude Birth Rate Total Lower Limit double,
ZZ Crude Birth Rate Total Upper Limit double,
ZZ Crude Birth Rate Rural Lower Limit double,
ZZ Crude Birth Rate Rural Upper Limit double,
ZZ Crude Birth Rate Urban Lower Limit double,
ZZ_Crude_Birth_Rate_Urban_Upper_Limit double,
ZZ Crude Death Rate Total Lower Limit double,
ZZ Crude Death Rate Total Upper Limit double,
ZZ Crude Death Rate Rural Lower Limit double,
ZZ Crude Death Rate Rural Upper Limit double,
ZZ Crude Death Rate Urban Lower Limit double,
ZZ Crude Death Rate Urban Upper Limit double,
ZZ Infant Mortality Rate Total Lower Limit double,
ZZ Infant Mortality Rate Total Upper Limit double,
ZZ Infant Mortality Rate Rural Lower Limit double,
ZZ Infant Mortality Rate Rural Upper Limit double,
ZZ Infant Mortality Rate Urban Lower Limit double,
ZZ Infant Mortality Rate Urban Upper Limit double,
ZZ Under Five Mortality Rate U5MR Total Lower Limit double,
ZZ Under Five Mortality Rate U5MR Total Upper Limit double,
ZZ Under Five Mortality Rate U5MR Rural Lower Limit double,
ZZ Under Five Mortality Rate U5MR Rural Upper Limit double,
ZZ Under Five Mortality Rate U5MR Urban Lower Limit double,
ZZ Under Five Mortality Rate U5MR Urban Upper Limit double,
ZZ Sex Ratio At Birth Total Lower Limit double,
ZZ Sex Ratio At Birth Total Upper Limit double,
ZZ Sex Ratio At Birth Rural Lower Limit double,
ZZ Sex Ratio At Birth Rural Upper Limit double,
ZZ Sex Ratio At Birth Urban Lower Limit double,
ZZ Sex Ratio At Birth Urban Upper Limit double)
row format delimited
fields terminated by ','
lines terminated by '\n'
tblproperties ("skip.header.line.count"="1");
```



Command to load the ingested data into the external table.

LOAD DATA INPATH '/user/test/upgrad_project/part-m-00000' overwrite INTO TABLE health_survey;

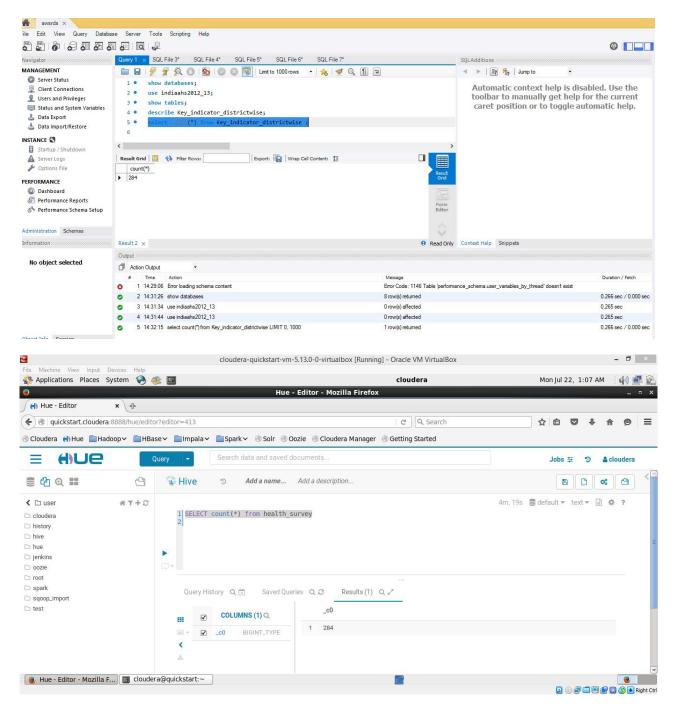


Queries to verify that the ingestion is correctly accomplished MYSQL WORKBENCH:-

select count(*) from Key indicator districtwise;

Hive Query :-

select count(*) from health_Survey;





Query to select the top 10 rows and first 6 columns along with the screenshots of the data fetched by the query on MySQL Workbench and Hue

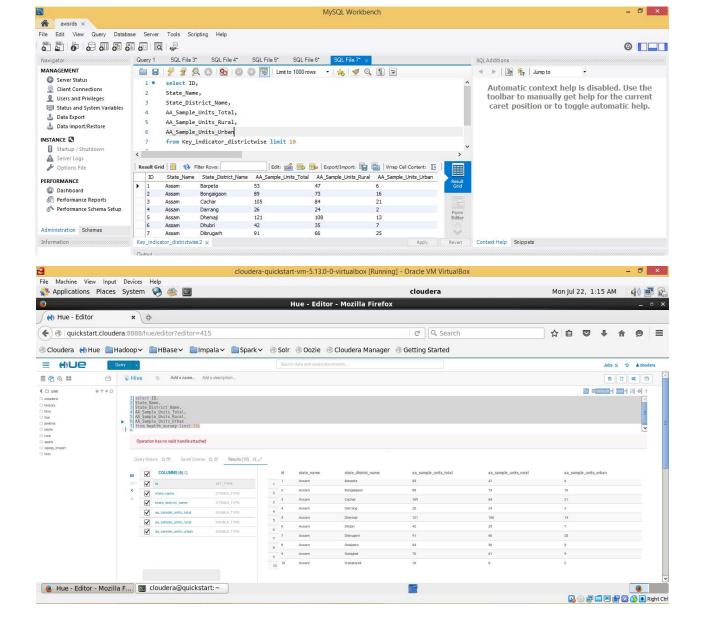
MYSQL WORK BENCH:-

select ID, State_Name, State_District_Name,
AA_Sample_Units_Total, AA_Sample_Units_Rural,
AA_Sample_Units_Urban

from Key indicator districtwise limit 10;

HUE HIVE :-

select ID, State_Name, State_District_Name, AA_Sample_Units_Total, AA_Sample_Units_Rural, AA_Sample_Units_Urban from health_survey_limit_10;



Subset schema and table creation in Hive to support the analyses



Columns used in the subset schema

- 1. ID
- 2. State_Name
- 3. State District Name,
- 4. BB_Average_Household_Size_All_Total
- 5. CC_Sex_Ratio_All_Ages_Total
- 6. LL_Total_Fertility_Rate_Total
- 7. YY_Under_Five_Mortality_Rate_U5MR_Total_Person



Storage format used

ORC



External Table creation with Subset column in orc format with partition on states

<Table creation>:-

create external table health survey partitioned(ID int, State District Name String,

BB Average Household Size All Total double,

CC Sex_Ratio_All_Ages_Total double,

LL Total Fertility Rate Total double,

YY Under Five Mortality Rate U5MR Total Person double)

PARTITIONED BY (State Name String)

ROW FORMAT DELIMITED

FIELDS TERMINATED BY ","

lines terminated by '\n'

Stored as orc

Setting Parameters for dynamic partitioning:-

set hive.exec.dynamic.partition=true;

set

hive.exec.dynamic.partition.mode=nonstrict

</nsert command>:-

INSERT INTO TABLE health_survey_partitioned PARTITION(State_Name) select
ID ,
State_District_Name,BB_Average_Household_Size_All_Total,
CC_Sex_Ratio_All_Ages_Total,
LL_Total_Fertility_Rate_Total,
YY_Under_Five_Mortality_Rate_U5MR_Total_Person,
State_Name
FROM health_survey



External Table creation with Subset column in orc format ,NON partitioned

create external table health_survey_non_partitioned(ID int, State_Name String, State_District_Name String,

BB_Average_Household_Size_All_Total double,

CC_Sex_Ratio_All_Ages_Total double,

LL_Total_Fertility_Rate_Total double,

YY_Under_Five_Mortality_Rate_U5MR_Total_Person double)

ROW FORMAT DELIMITED

FIELDS TERMINATED BY ","

lines terminated by '\n'

Stored as orc

</nsert command>:-

INSERT INTO TABLE health survey non partitioned

select

ID, State Name

State_District_Name,BB_Average_Household_Size_All_Total,

CC_Sex_Ratio_All_Ages_Total,

LL_Total_Fertility_Rate_Total,

YY Under Five Mortality Rate U5MR Total Person,

FROM health survey



Hive and hbase integration table creation and insertion of data Table Creation:-

create table key indicatior hive(key int, State Name String, State District Name String,

BB_Average_Household_Size_All_Total double,

CC_Sex_Ratio_All_Ages_Total double,

LL Total Fertility Rate Total double,

YY_Under_Five_Mortality_Rate_U5MR_Total_Person double)

stored by 'org.apache.hadoop.hive.hbase.HBaseStorageHandler'

with serdeproperties ("hbase.columns.mapping" = ":key

,india_states_and_districts:state_name,india_states_and_districts:state_district_name,survey_result:B

B Average Household Size All Total, survey result: CC Sex Ratio All Ages Total, survey result: LL

Total_Fertility_Rate_Total,survey_result:YY_Under_Five_Mortality_Rate_U5MR_Total_Person")

tblproperties ("hbase.table.name" = "key_indicatior_hbase");

<Insert command> :-

INSERT OVERWRITE TABLE key_indicatior_hive

SELECT

ID as key,

State_Name,

State_District_Name,

BB_Average_Household_Size_All_Total,

CC_Sex_Ratio_All_Ages_Total,

LL Total Fertility Rate Total,

YY Under Five Mortality Rate U5MR Total Person

FROM

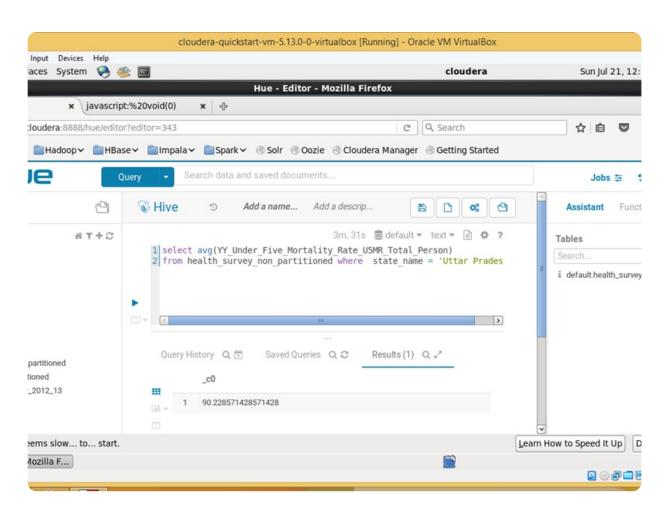
health_survey

Screenshot of runtimes against each query given above for the default format, formats such as ORC format as well as Hive-Hbase integration



The child mortality rate in Uttar Pradesh on orc non partitioned table *Query-1:-*

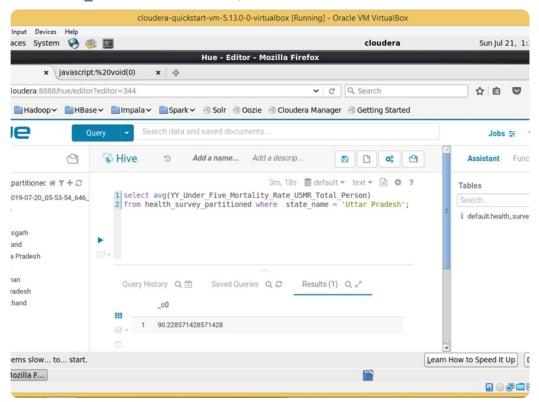
select avg(YY_Under_Five_Mortality_Rate_U5MR_Total_Person) from health_survey_non_partitioned where state name = 'Uttar Pradesh';





The child mortality rate in Uttar Pradesh on orc partitioned table *Query-1:-*

select avg(YY_Under_Five_Mortality_Rate_U5MR_Total_Person) from health_survey_non_partitioned where state _name = 'Uttar Pradesh';

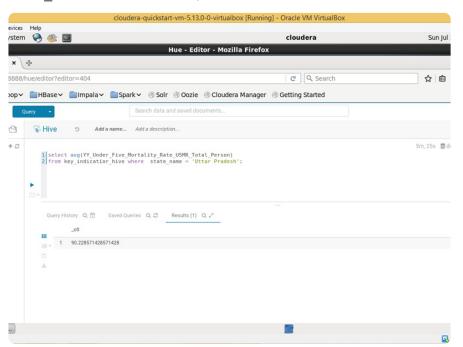




The child mortality rate in Uttar Pradesh on Hive & Hbase integration table

Query-1:-

select avg(YY_Under_Five_Mortality_Rate_U5MR_Total_Person) from key_indicatior_hive where state name = 'Uttar Pradesh';

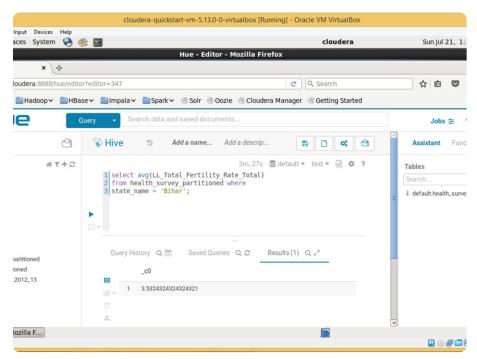




The fertility rate in Bihar on orc format partitioned table *Query-2:-*

select avg(LL_Total_Fertility_Rate_Total)

from health_survey_partitioned where state_name = 'Bihar';

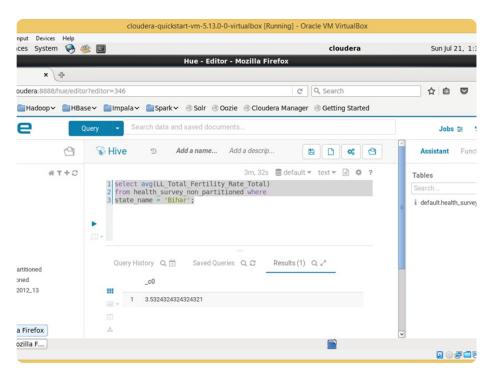




The fertility rate in Bihar on orc format non partitioned table *Query-2:-*

select avg(LL_Total_Fertility_Rate_Total)

from health_survey_non_partitioned where state_name = 'Bihar';

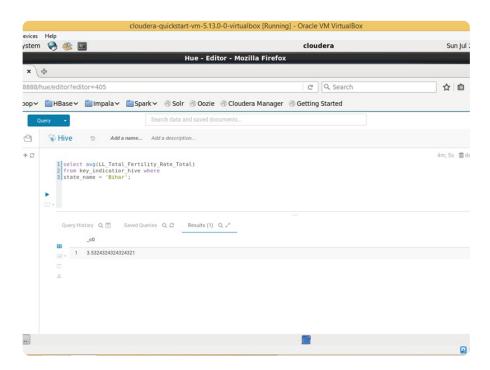




The fertility rate in Bihar on hive and hbase integrated table

Query-2:-

select avg(LL_Total_Fertility_Rate_Total)
from key_indicatior_hive where state_name = 'Bihar';

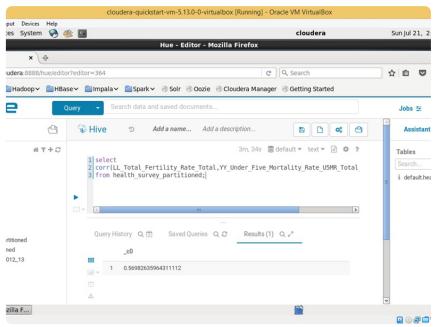




State-wise child mortality rate and state-wise fertility rate and does high fertility correlate with high child mortality? on orc partitioned table

Query-3:-

select corr(LL_Total_Fertility_Rate_Total,YY_Under_Five_Mortality_Rate_U5MR_Total_Person) from health_survey_partitioned;



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State-wise child mortality rate and state-wise fertility rate and does high fertility correlate with high child mortality? on orc non partitioned table

Query-3:-

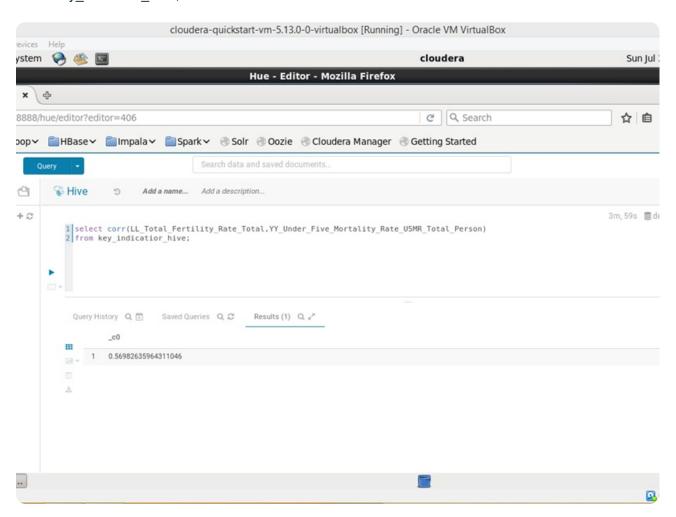
select corr(LL_Total_Fertility_Rate_Total,YY_Under_Five_Mortality_Rate_U5MR_Total_Person) from health_survey_non_partitioned;



State-wise child mortality rate and state-wise fertility rate and does high fertility correlate with high child mortality? on Hive and Hbase Integrated table

Query-3:-

select corr(LL_Total_Fertility_Rate_Total,YY_Under_Five_Mortality_Rate_U5MR_Total_Person) from key_indicatior_hive;

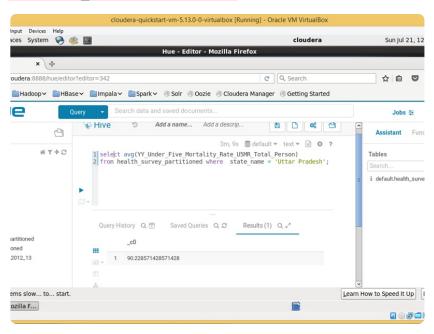


The result of each analysis along with the query and the corresponding chart generated in Hue. Keep optimizations in mind



The child mortality rate of Uttar Pradesh on orc partitioned hive table

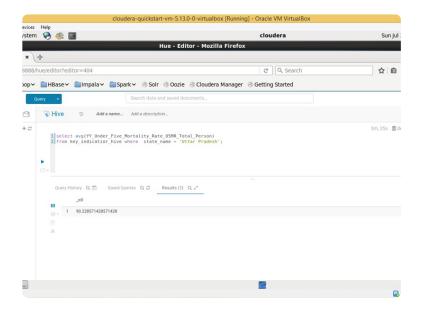
select avg(YY_Under_Five_Mortality_Rate_U5MR_Total_Person) from health_survey_non_partitioned where state_name = 'Uttar Pradesh';





The child mortality rate of Uttar Pradesh on hive and hbase integrated table

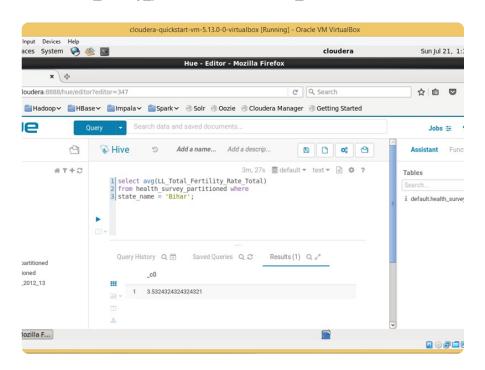
select avg(YY_Under_Five_Mortality_Rate_U5MR_Total_Person) from key_indicatior_hive where state_name = 'Uttar Pradesh';





The fertility rate of Bihar on orc partitioned hive table

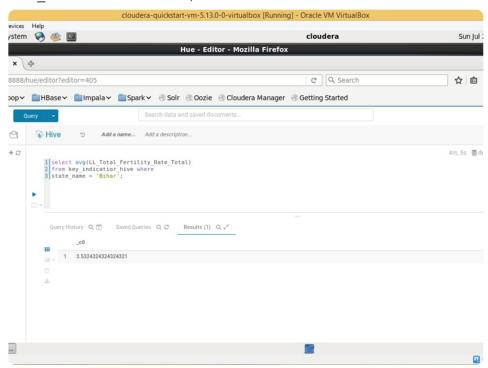
select avg(LL_Total_Fertility_Rate_Total)
from health_survey_partitioned where state_name = 'Bihar';





The fertility rate of Bihar on hive and hbase integrated table

select avg(YY_Under_Five_Mortality_Rate_U5MR_Total_Person) from key_indicatior_hive where state_name = 'Uttar Pradesh';

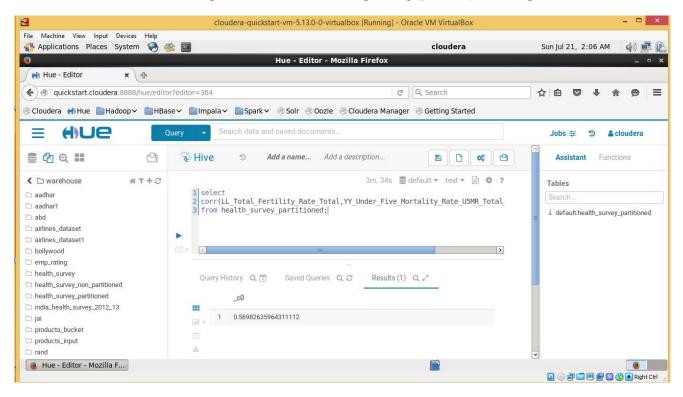


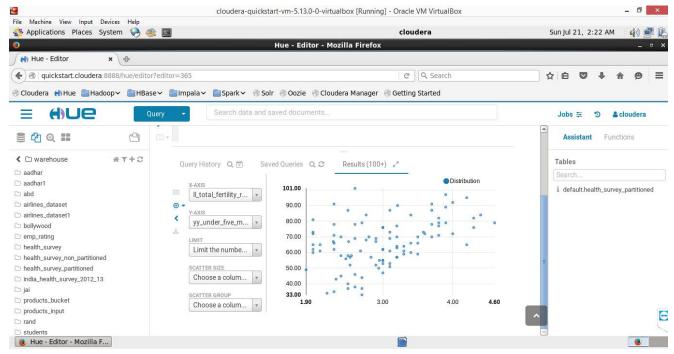


State wise child mortality rate and state wise fertility rate and does high fertility correlate with high child mortality? on orc partitioned hive table

select corr(LL_Total_Fertility_Rate_Total,YY_Under_Five_Mortality_Rate_U5MR_Total_Person) from health survey partitioned;

Since, correlation coefficient is greater than 0.5 indicating strong (positive) i.e. at high value





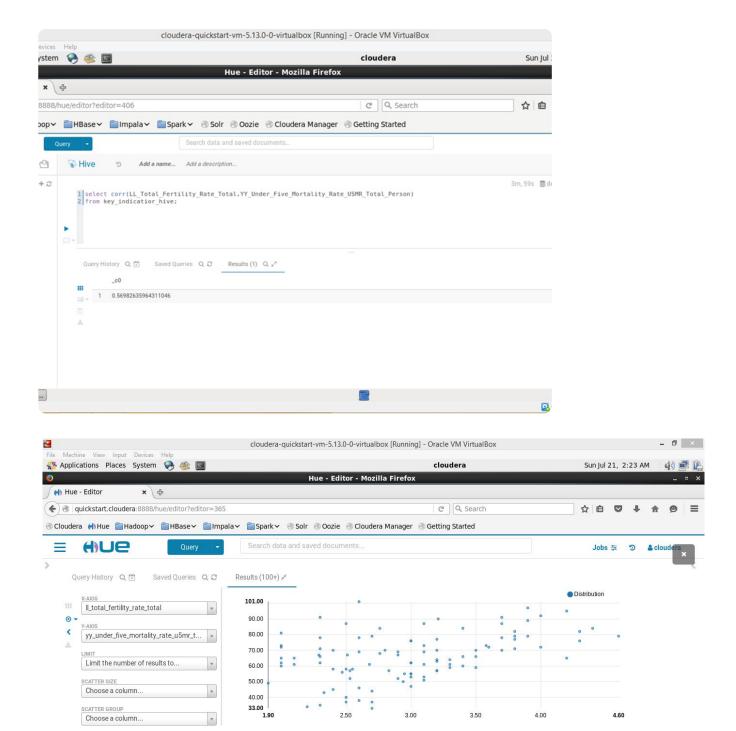


📵 Hue - Editor - Mozilla F...

State wise child mortality rate and state wise fertility rate and does high fertility correlate with high child mortality? on Hive and hbase integrated table

select corr(LL_Total_Fertility_Rate_Total,YY_Under_Five_Mortality_Rate_U5MR_Total_Person) from key_indicatior_hive;

Since, correlation coefficient is greater than 0.5 indicating strong (positive) i.e. at high value



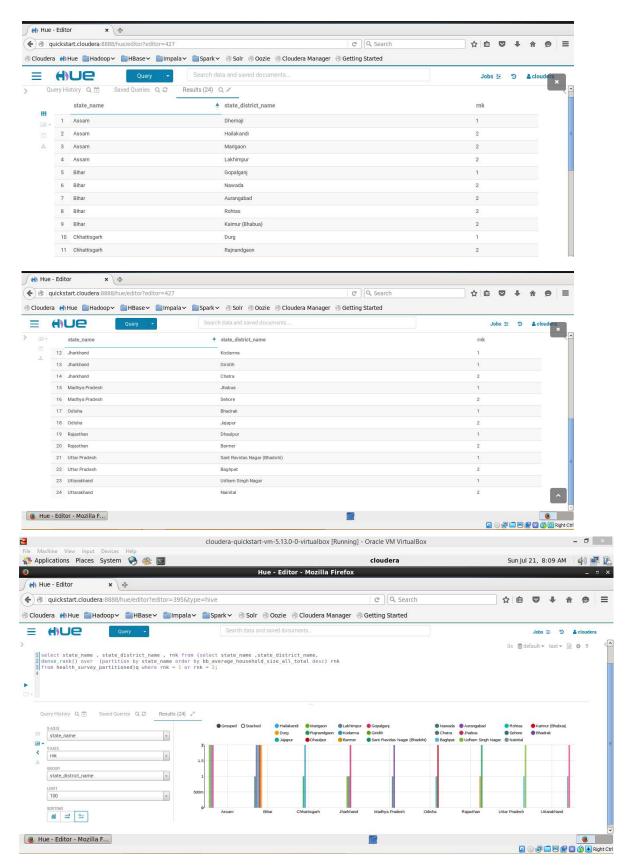
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Find top 2 districts per state with the highest population per household on orc partitioned hive table

select state_name , state_district_name , rnk from (select state_name ,state_district_name, dense_rank() over (partition by state_name order by BB_Average_Household_Size_All_Total desc) rnk

from health_survey_partitioned)q where rnk = 1 or rnk = 2;

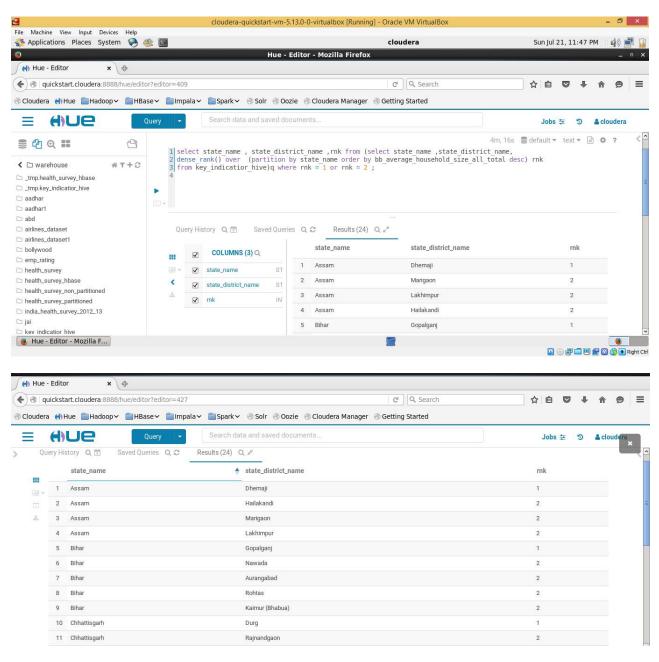


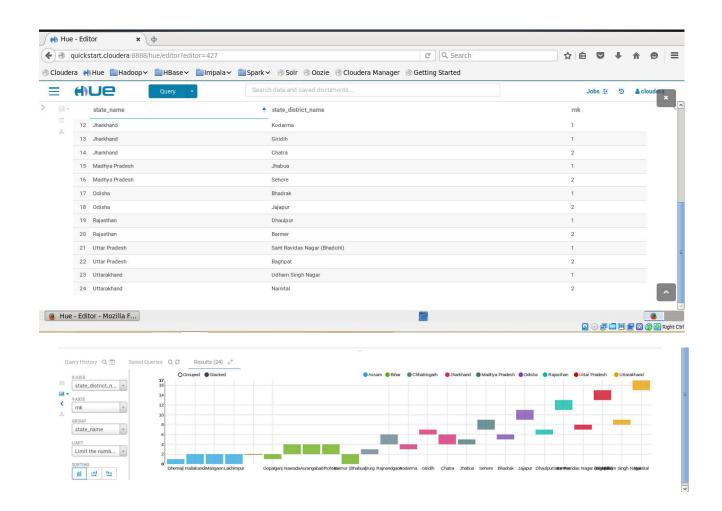


Find top 2 districts per state with the highest population per household on hive and hbase integrated table

select state_name , state_district_name , rnk from (select state_name ,state_district_name, dense_rank() over (partition by state_name order by BB_Average_Household_Size_All_Total desc) rnk

from key_indicatior_hive)q where rnk = 1 or rnk = 2;

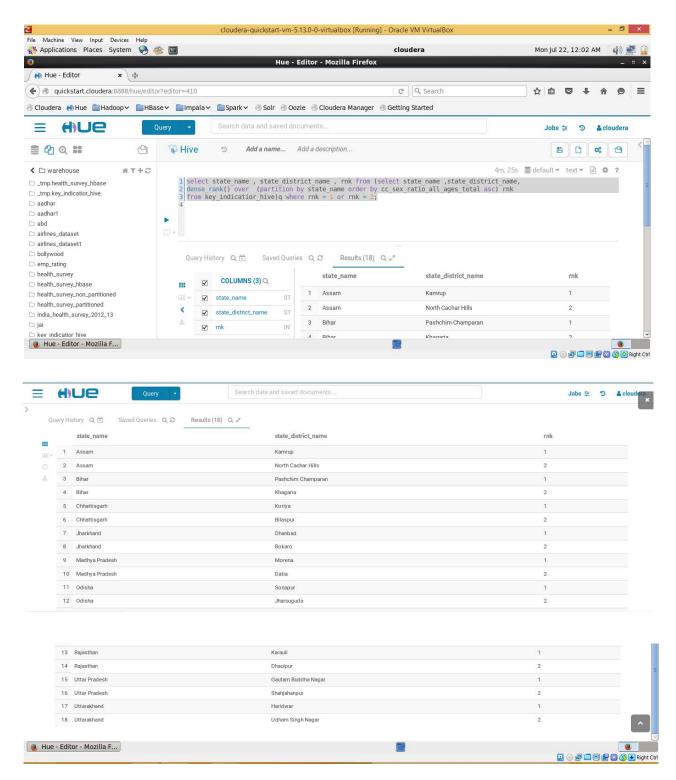


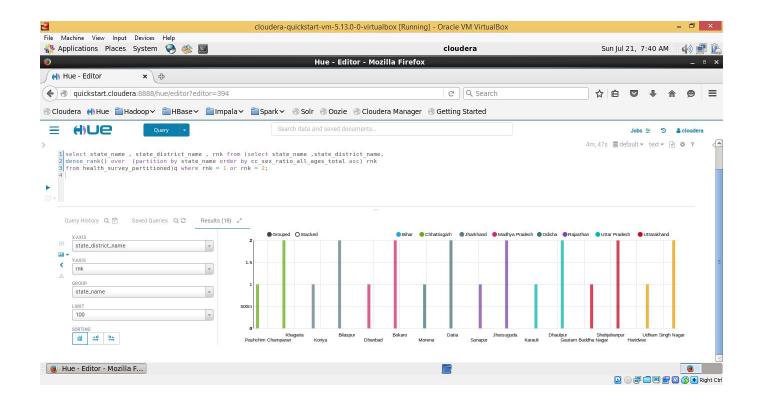




Find top 2 districts per state with the lowest sex ratios on orc partitioned hive table

select state_name , state_district_name , rnk from (select state_name ,state_district_name, dense_rank() over (partition by state_name order by cc_sex_ratio_all_ages_total asc) rnk from health_survey_partitioned)q where rnk = 1 or rnk = 2;







Find top 2 districts per state with the lowest sex ratios on hive and hbase integrated table

select state_name , state_district_name , rnk from (select state_name ,state_district_name, dense_rank() over (partition by state_name order by cc_sex_ratio_all_ages_total asc) rnk from key_indicatior_hive)q where rnk = 1 or rnk = 2;

