**ETL&Batch Processing project**

**Data Ingestion from the RDS to HDFS using Sqoop**

1. **Command for importing database sqoop**

sqoop import --connect jdbc:mysql://upgradawsrds.cpclxrkdvwmz.us-east-1.rds.amazonaws.com/indiaahs2012\_13 --username upgraduser --password upgraduser --table Key\_indicator\_districtwise --fields-terminated-by ',' --null-string 'NA' --null-non-string '\\N' --target-dir /user/cloudera/sqoop/indiaahs2012\_13/key\_indicator\_districtwise

1. **Command to see the list of imported data**

hdfs dfs -ls sqoop/indiaahs2012\_13/key\_indicator\_districtwise

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

1. **Command to create the external table**

create external table IF NOT EXISTS Key\_indicator\_districtwise(`ID` bigint,

`State\_Name` varchar(100),

`State\_District\_Name` varchar(100),

`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,

`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,

`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,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Severe\_Person\_Total` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Severe\_Person\_Rural` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Severe\_Person\_Urban` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Severe\_Male\_Total` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Severe\_Male\_Rural` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Severe\_Male\_Urban` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Severe\_Female\_Total` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Severe\_Female\_Rural` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Severe\_Female\_Urban` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Major\_Person\_Total` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Major\_Person\_Rural` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Major\_Person\_Urban` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Major\_Male\_Total` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Major\_Male\_Rural` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Major\_Male\_Urban` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Major\_Female\_Total` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Major\_Female\_Rural` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Major\_Female\_Urban` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Minor\_Person\_Total` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Minor\_Person\_Rural` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Minor\_Person\_Urban` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Minor\_Male\_Total` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Minor\_Male\_Rural` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Minor\_Male\_Urban` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Minor\_Female\_Total` double,

`II\_Injured\_By\_Type\_Of\_Treatment\_Per\_100000\_Minor\_Female\_Rural` double,

`II\_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,

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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,

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`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,

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`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,

`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\_Ill\_Per\_100000\_Diabetes\_Person\_Total` double,

`KK\_Diag\_For\_Chronic\_Ill\_Per\_100000\_Diabetes\_Person\_Rural` double,

`KK\_Diag\_For\_Chronic\_Ill\_Per\_100000\_Diabetes\_Person\_Urban` double,

`KK\_Diag\_For\_Chronic\_Ill\_Per\_100000\_Diabetes\_Male\_Total` double,

`KK\_Diag\_For\_Chronic\_Ill\_Per\_100000\_Diabetes\_Male\_Rural` double,

`KK\_Diag\_For\_Chronic\_Ill\_Per\_100000\_Diabetes\_Male\_Urban` double,

`KK\_Diag\_For\_Chronic\_Ill\_Per\_100000\_Diabetes\_Female\_Total` double,

`KK\_Diag\_For\_Chronic\_Ill\_Per\_100000\_Diabetes\_Female\_Rural` double,

`KK\_Diag\_For\_Chronic\_Ill\_Per\_100000\_Diabetes\_Female\_Urban` double,

`KK\_Diag\_For\_Chronic\_Ill\_Per\_100000\_Hypertension\_Person\_Total` double,

`KK\_Diag\_For\_Chronic\_Ill\_Per\_100000\_Hypertension\_Person\_Rural` double,

`KK\_Diag\_For\_Chronic\_Ill\_Per\_100000\_Hypertension\_Person\_Urban` double,

`KK\_Diag\_For\_Chronic\_Ill\_Per\_100000\_Hypertension\_Male\_Total` double,

`KK\_Diag\_For\_Chronic\_Ill\_Per\_100000\_Hypertension\_Male\_Rural` double,

`KK\_Diag\_For\_Chronic\_Ill\_Per\_100000\_Hypertension\_Male\_Urban` double,

`KK\_Diag\_For\_Chronic\_Ill\_Per\_100000\_Hypertension\_Female\_Total` double,

`KK\_Diag\_For\_Chronic\_Ill\_Per\_100000\_Hypertension\_Female\_Rural` double,

`KK\_Diag\_For\_Chronic\_Ill\_Per\_100000\_Hypertension\_Female\_Urban` double,

`KK\_Diag\_For\_Chronic\_Ill\_Per\_100000\_Tb\_Person\_Total` double,

`KK\_Diag\_For\_Chronic\_Ill\_Per\_100000\_Tb\_Person\_Rural` double,

`KK\_Diag\_For\_Chronic\_Ill\_Per\_100000\_Tb\_Person\_Urban` double,

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`KK\_Diag\_For\_Chronic\_Ill\_Per\_100000\_Tb\_Male\_Urban` double,

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`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,

`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,

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`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\_Ill\_And\_Getting\_Regular\_Treatment\_Govt\_Person\_Total` double,

`KK\_Chronic\_Ill\_And\_Getting\_Regular\_Treatment\_Govt\_Person\_Rural` double,

`KK\_Chronic\_Ill\_And\_Getting\_Regular\_Treatment\_Govt\_Person\_Urban` double,

`KK\_Chronic\_Ill\_And\_Getting\_Regular\_Treatment\_Govt\_Male\_Total` double,

`KK\_Chronic\_Ill\_And\_Getting\_Regular\_Treatment\_Govt\_Male\_Rural` double,

`KK\_Chronic\_Ill\_And\_Getting\_Regular\_Treatment\_Govt\_Male\_Urban` double,

`KK\_Chronic\_Ill\_And\_Getting\_Regular\_Treatment\_Govt\_Female\_Total` double,

`KK\_Chronic\_Ill\_And\_Getting\_Regular\_Treatment\_Govt\_Female\_Rural` double,

`KK\_Chronic\_Ill\_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,

`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,

`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\_Iud\_Total` double,

`NN\_Current\_Usage\_Copper\_T\_Iud\_Rural` double,

`NN\_Current\_Usage\_Copper\_T\_Iud\_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,

`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\_Ifa\_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,

`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,

`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,

`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,

`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 ',';

1. **Command to load the ingested data into the external table.**

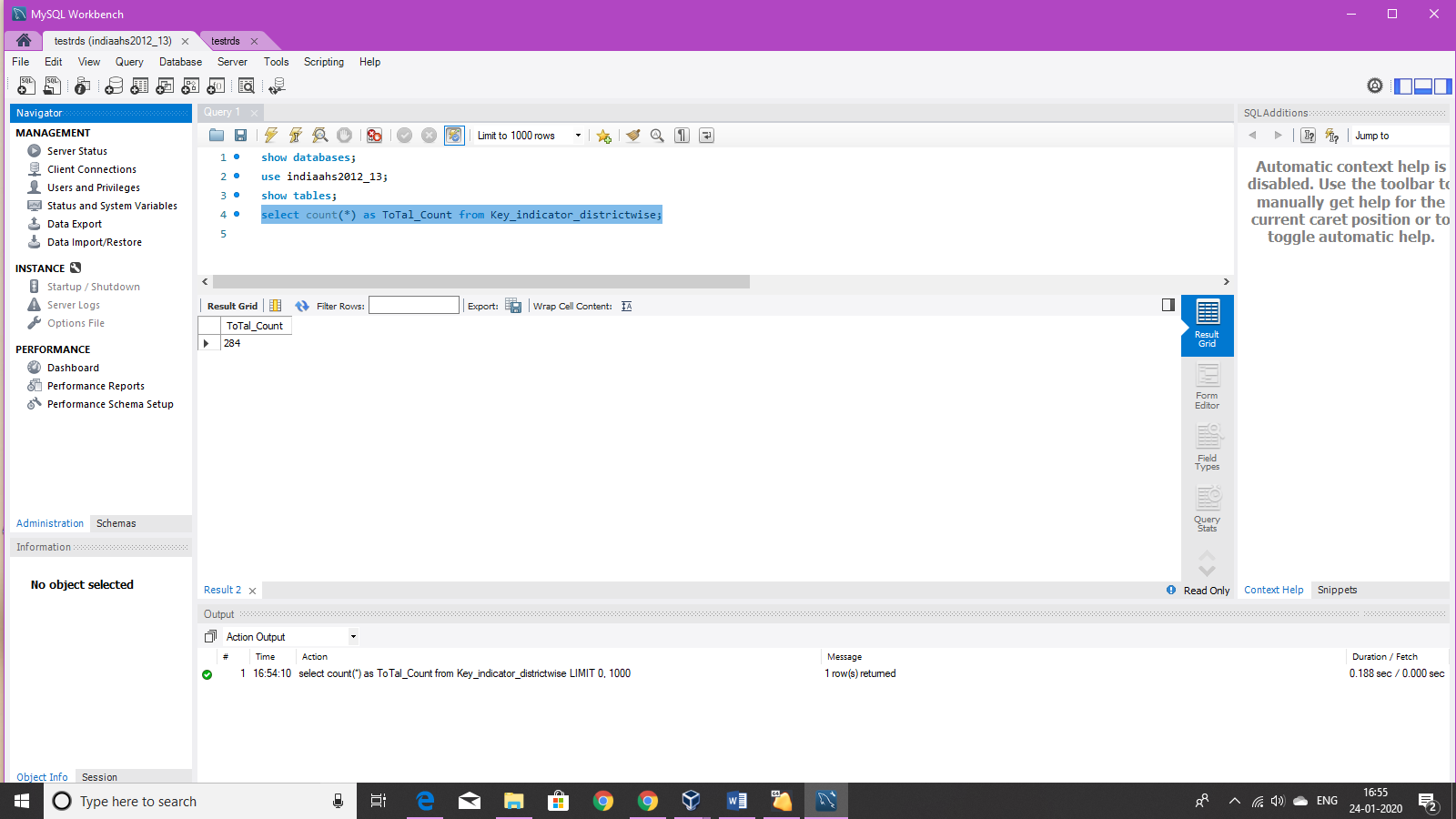
load data inpath '/user/cloudera/sqoop/indiaahs2012\_13/key\_indicator\_districtwise/part-m-\*' overwrite into table indiaahs2012\_13.key\_indicator\_districtwise;

**3. Queries to verify that the ingestion is correctly accomplished**

a) Query to count the total number of rows along with the screenshots of the data fetched by the query on MySQL Workbench and Hue

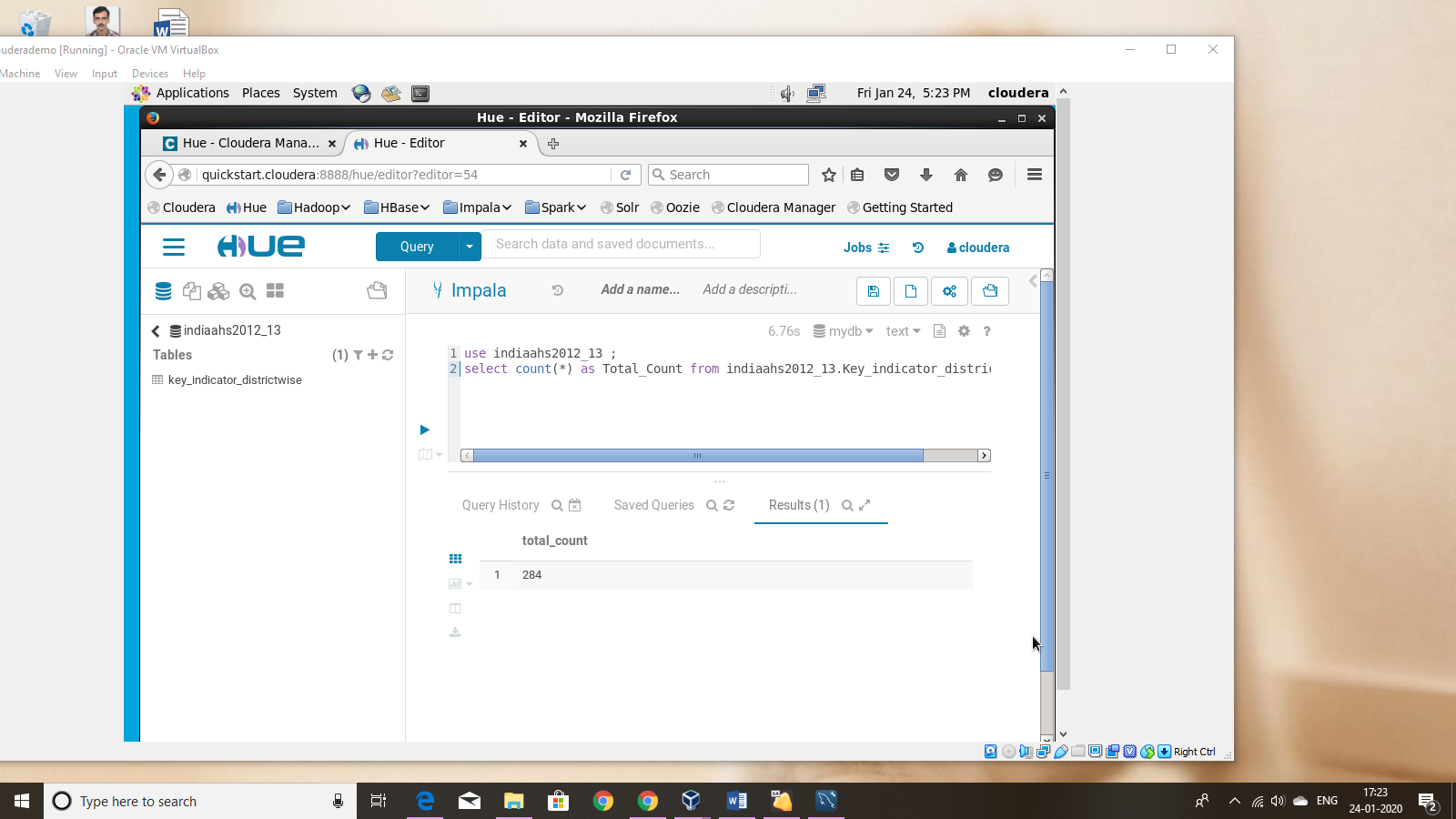
1. Run the below query on mysql workbench.

select count(\*) as ToTal\_Count from Key\_indicator\_districtwise;



1. Run the below query on Hue

Select count(\*) as Total\_Count from indiaahs2012\_13.key\_indicator\_districtwise;

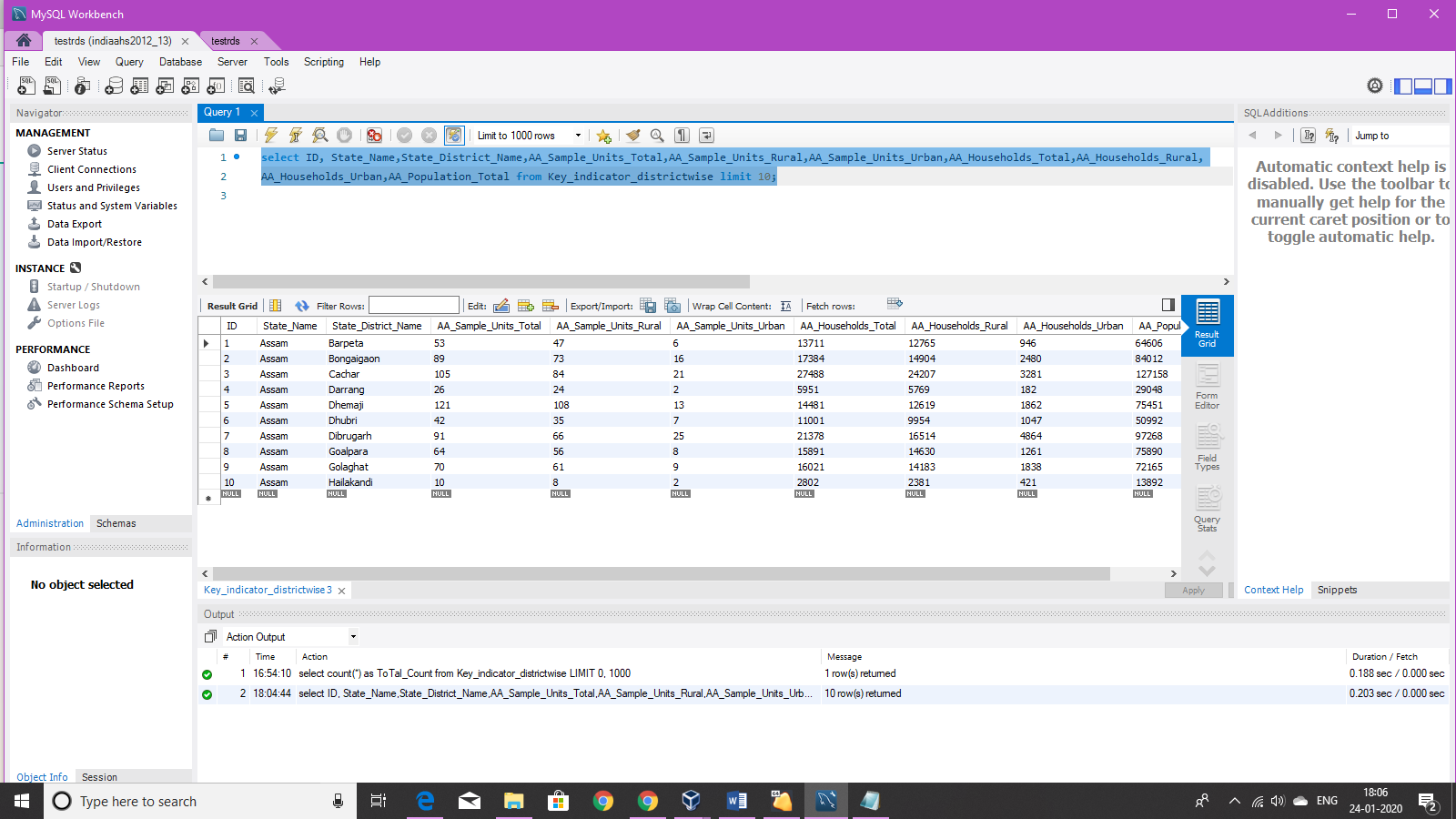


b) Query to select the top 10 rows and first 8 columns along with the screenshots of the data fetched by the query on MySQL Workbench and Hue

1. Query in Mysql workbench

select ID, State\_Name, State\_District\_Name, AA\_Sample\_Units\_Total, AA\_Sample\_Units\_Rural, AA\_Sample\_Units\_Urban,AA\_Households\_Total,AA\_Households\_Rural,

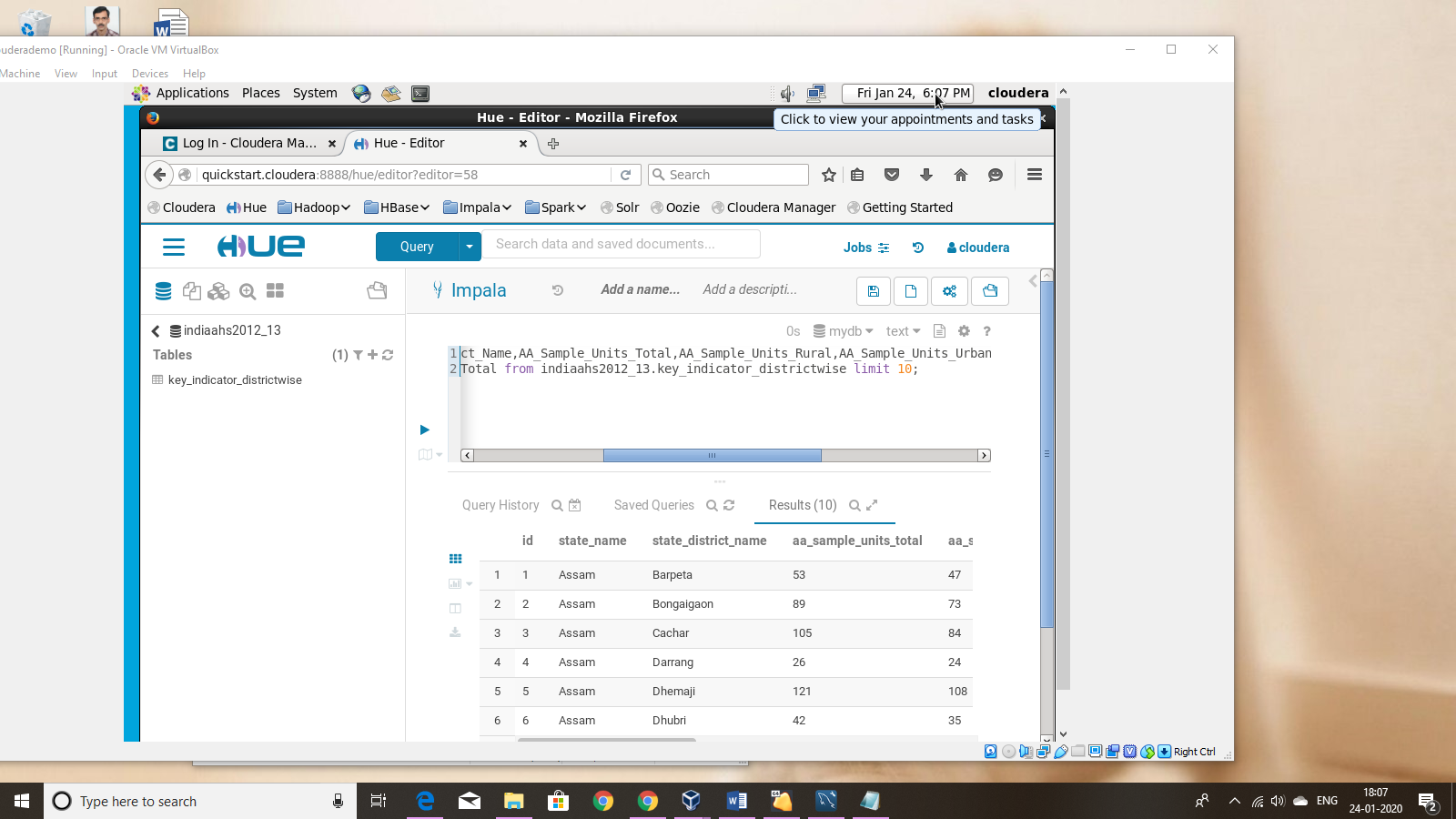
AA\_Households\_Urban,AA\_Population\_Total from Key\_indicator\_districtwise limit 10;



1. Query in Hue

select ID, State\_Name,State\_District\_Name,AA\_Sample\_Units\_Total,AA\_Sample\_Units\_Rural,AA\_Sample\_Units\_Urban,AA\_Households\_Total,AA\_Households\_Rural,

AA\_Households\_Urban,AA\_Population\_Total from indiaahs2012\_13.key\_indicator\_districtwise limit 10;



**Subset schema creation in Hive to support the analyses**

1. Columns used in the subset schema

state\_name

state\_district\_name

population\_per\_household

sex\_ratio

fertility\_rate

child\_mortality\_rate

1. Storage Format used

ORC

1. Create and insert command for the default format

create table hive\_analysis(‘ID’ int(11),`State\_Name` varchar(100) ,`State\_District\_Name` varchar(100),`population\_per\_household` double, `Sex\_ratio` double, `Fertlity\_rate` double,`Child\_Mortality\_Rate` double ) row format delimited fields terminated by ',';

insert overwrite table hive\_analysis select id,state\_name,state\_district\_name

,round((aa\_population\_total/aa\_households\_total),1),cc\_sex\_ratio\_all\_ages\_total,ll\_total\_fertility\_rate\_total, yy\_under\_five\_mortality\_rate\_u5mr\_total\_person from indiaahs2012\_13.key\_indicator\_districtwise;

1. Create and insert command for the formats such as ORC

create table hive\_analysis\_orc(ID int,State\_Name varchar(100) ,State\_District\_Name varchar(100),population\_per\_household double, Sex\_ratio double, Fertility\_rate double,Child\_Mortality\_Rate double) stored as orc tblproperties("orc.compress"="SNAPPY");

insert overwrite table hive\_analysis\_orc select id,state\_name,state\_district\_name

,round((aa\_population\_total/aa\_households\_total),1),cc\_sex\_ratio\_all\_ages\_total,ll\_total\_fertility\_rate\_total, yy\_under\_five\_mortality\_rate\_u5mr\_total\_person from indiaahs2012\_13.key\_indicator\_districtwise;

1. Create and insert command for the Hive-HBase integrated table

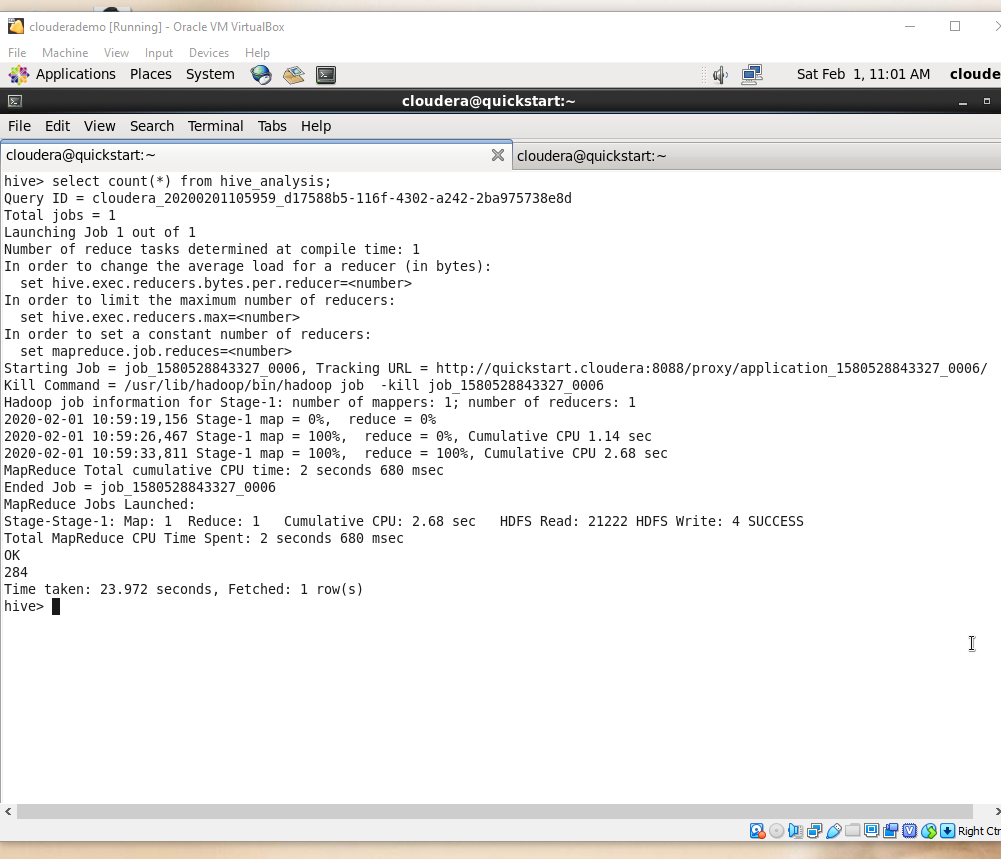
create table hive\_analysis\_hbase(id int,State\_Name varchar(100),State\_District\_Name varchar(100),population\_per\_household double, Sex\_ratio double, Fertliity\_rate double, Child\_Mortality\_Rate double)

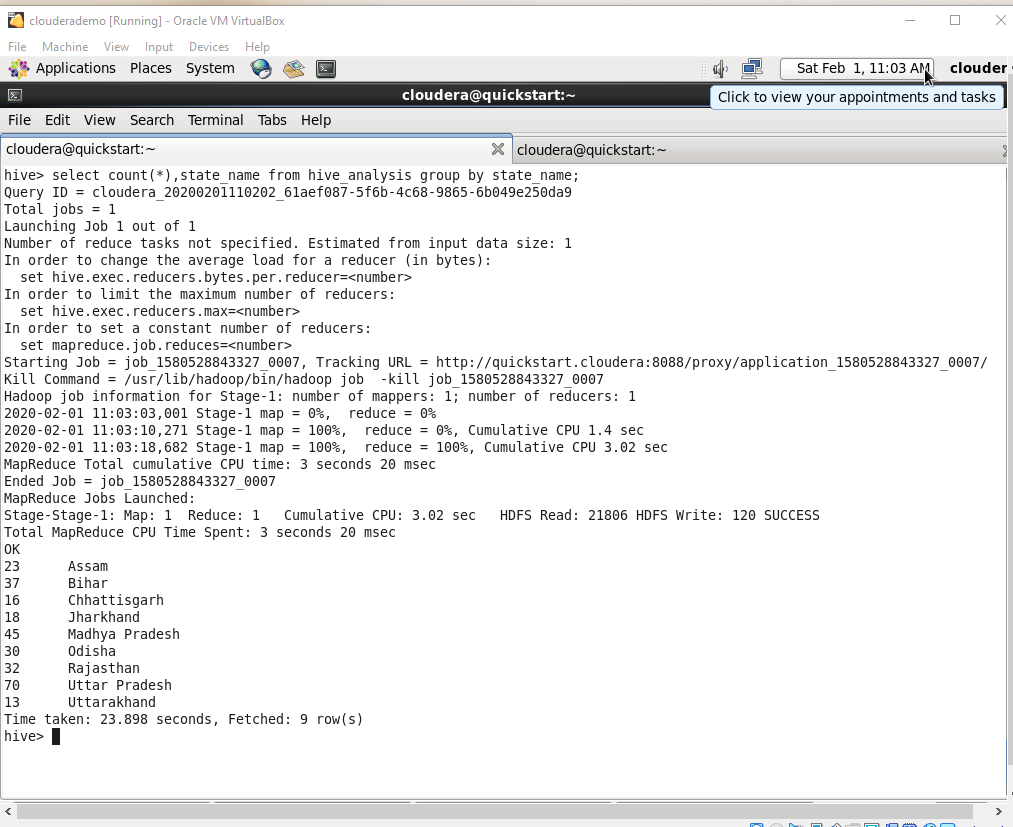
STORED BY 'org.apache.hadoop.hive.hbase.HBaseStorageHandler' with serdeproperties

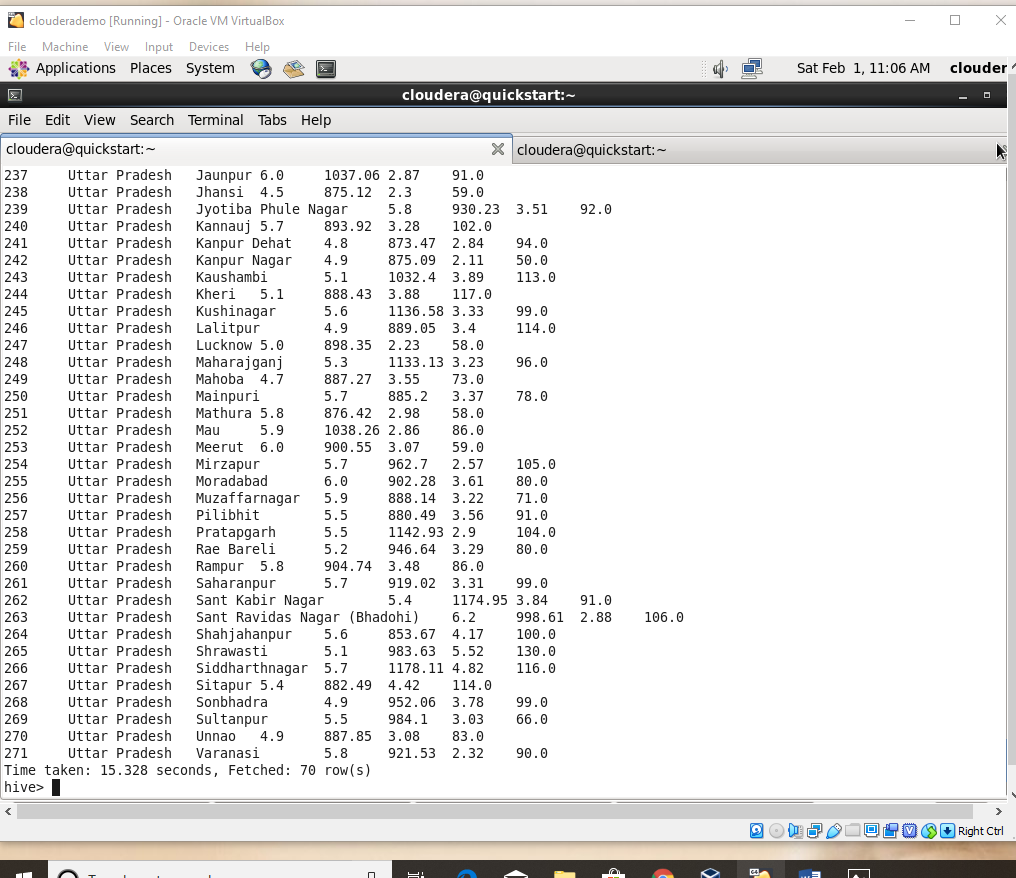
("hbase.columns.mapping"=":key,cf1:State\_Name,cf2:State\_District\_name,cf3:population\_per\_household,cf4:Sex\_ratio,cf5:Fertility\_rate,cf6:Child\_Mortality\_Rate") tblproperties("hbase.table.name"="indiaahskeyindicator");

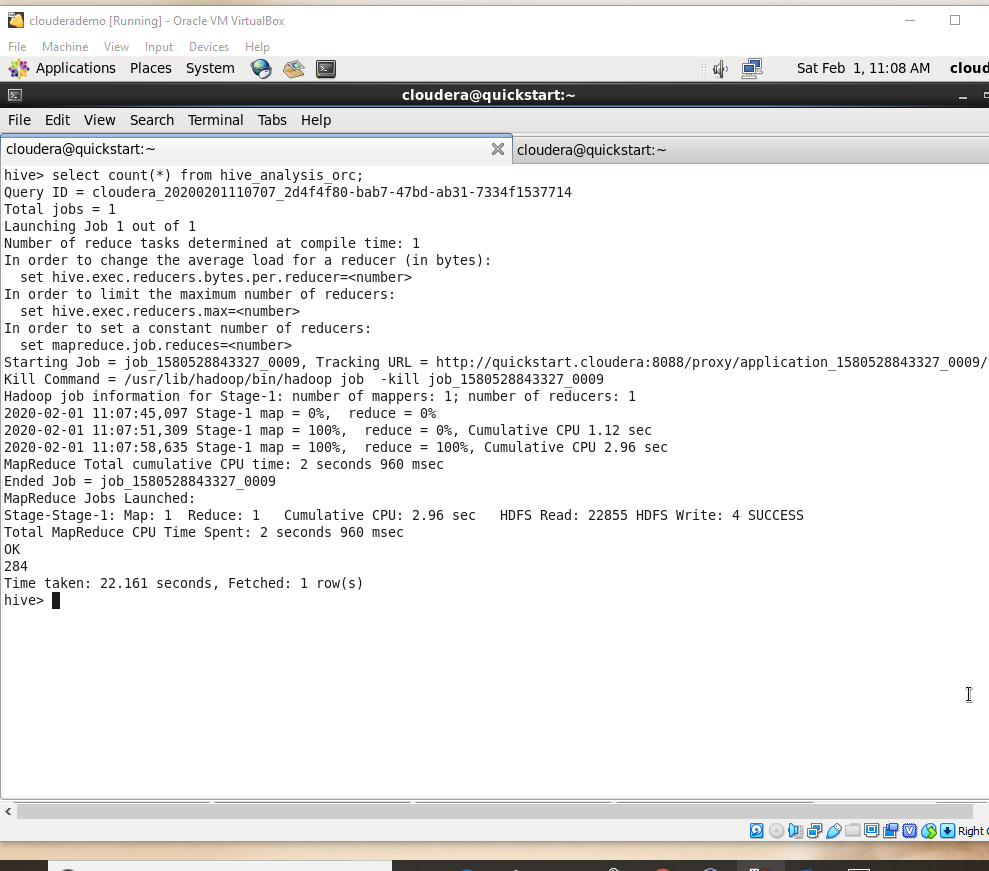
insert overwrite table hive\_analysis\_hbase select \*from hive\_analysis;

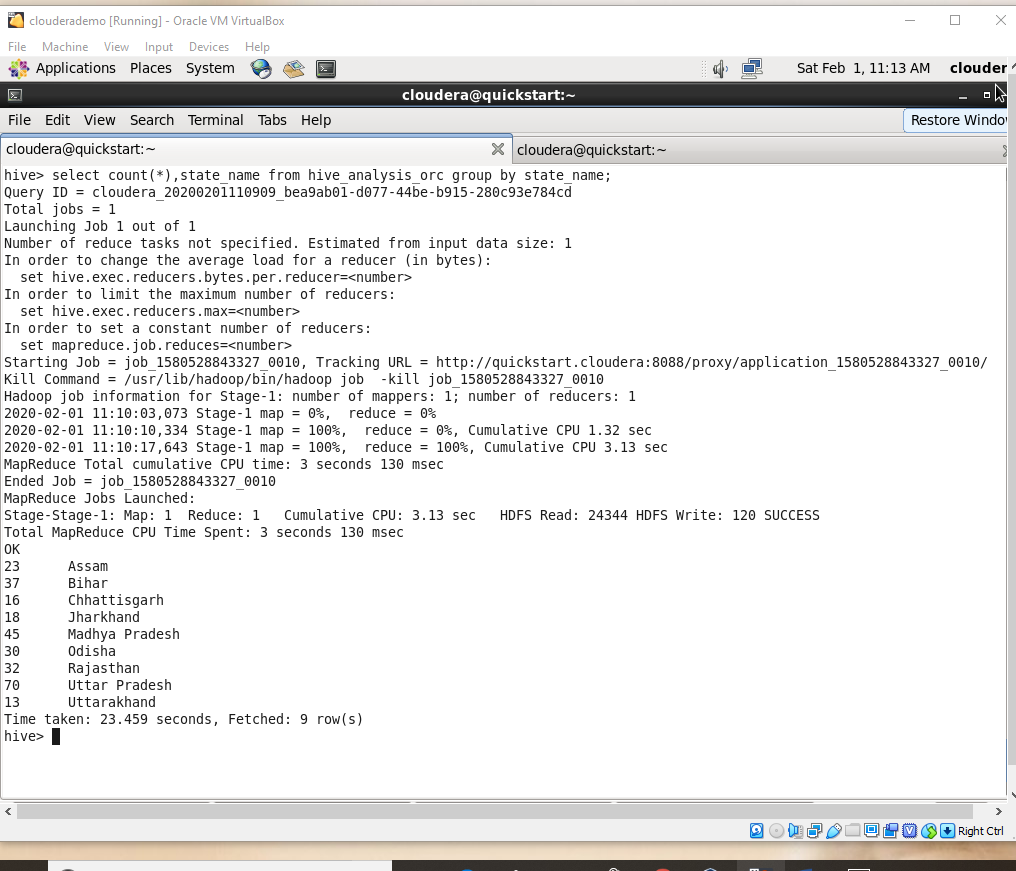
1. Screenshot of runtimes against each query given above for the default format, formats such as ORC format as well as Hive-Hbase integration

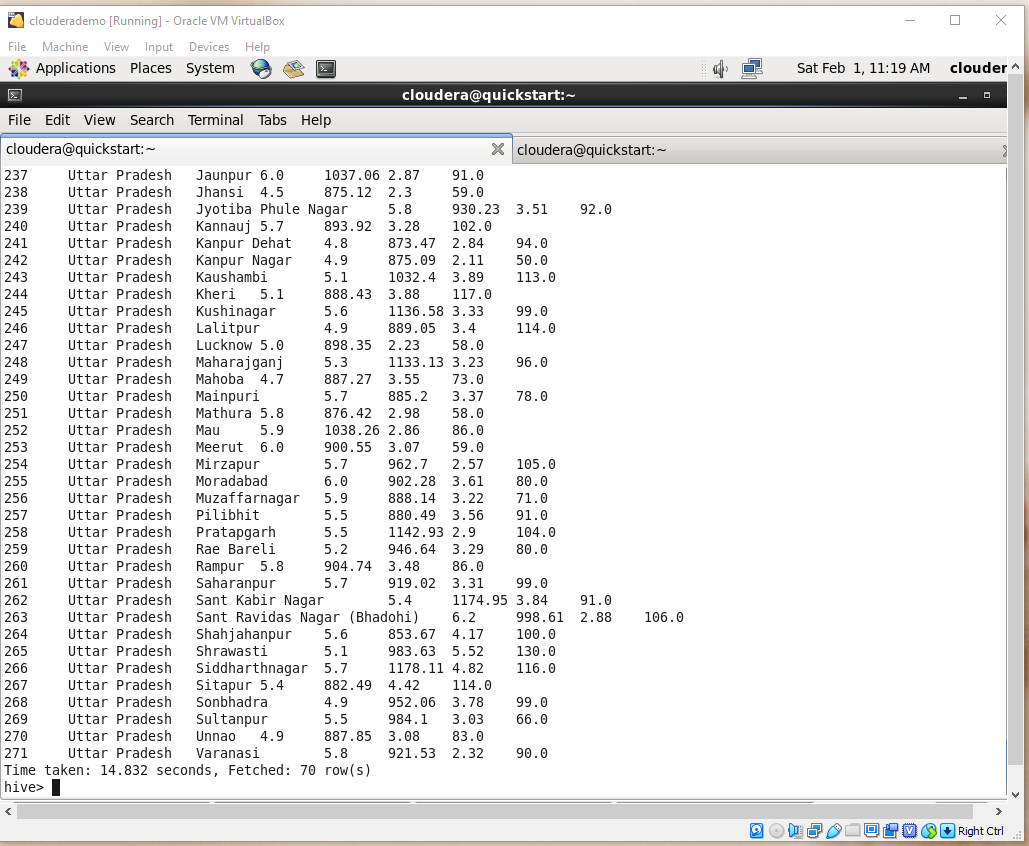


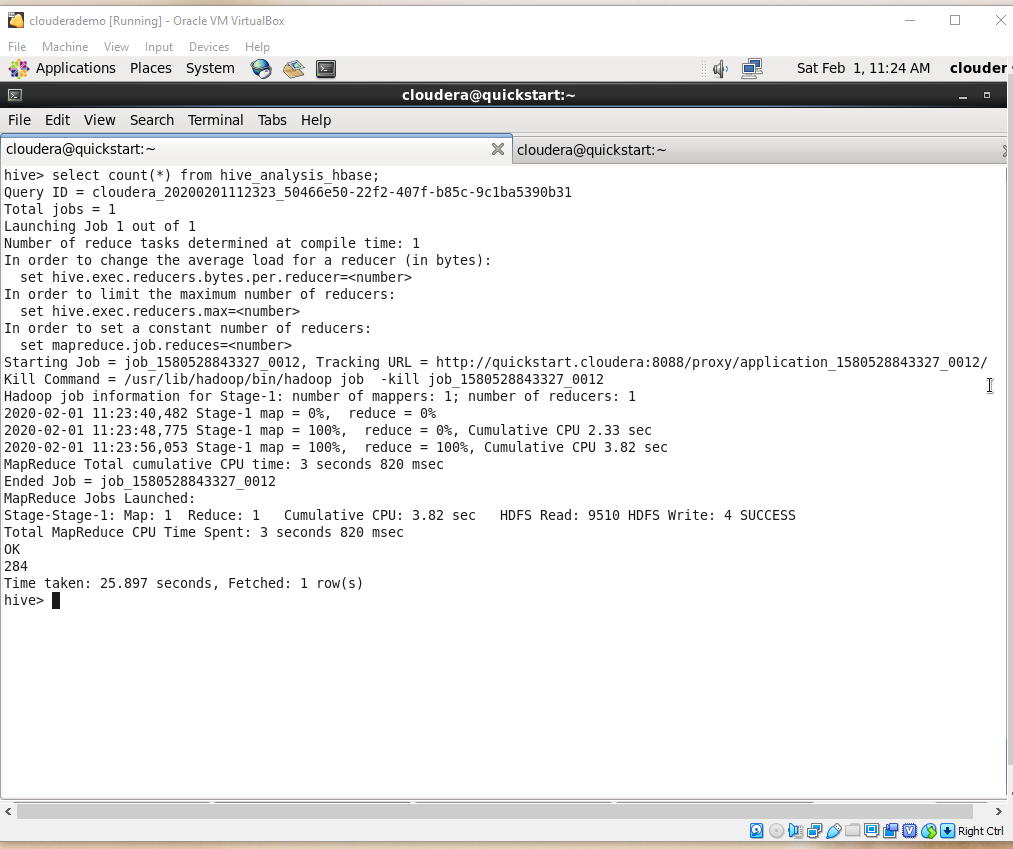


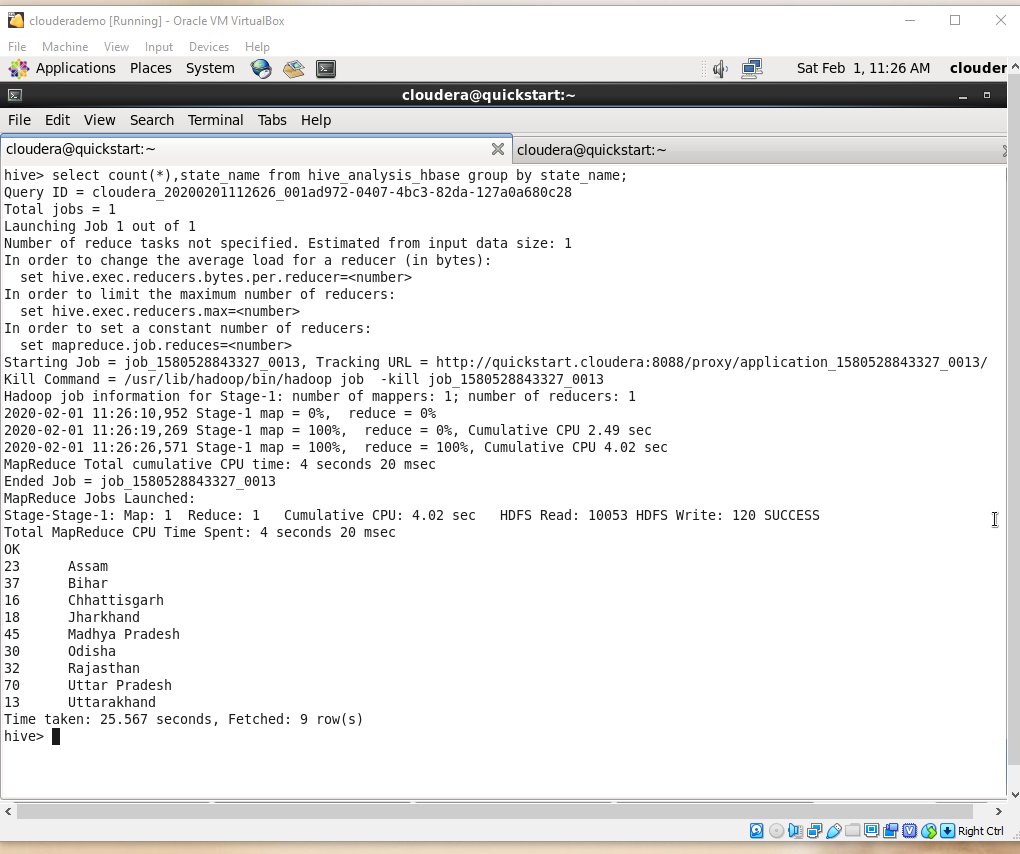


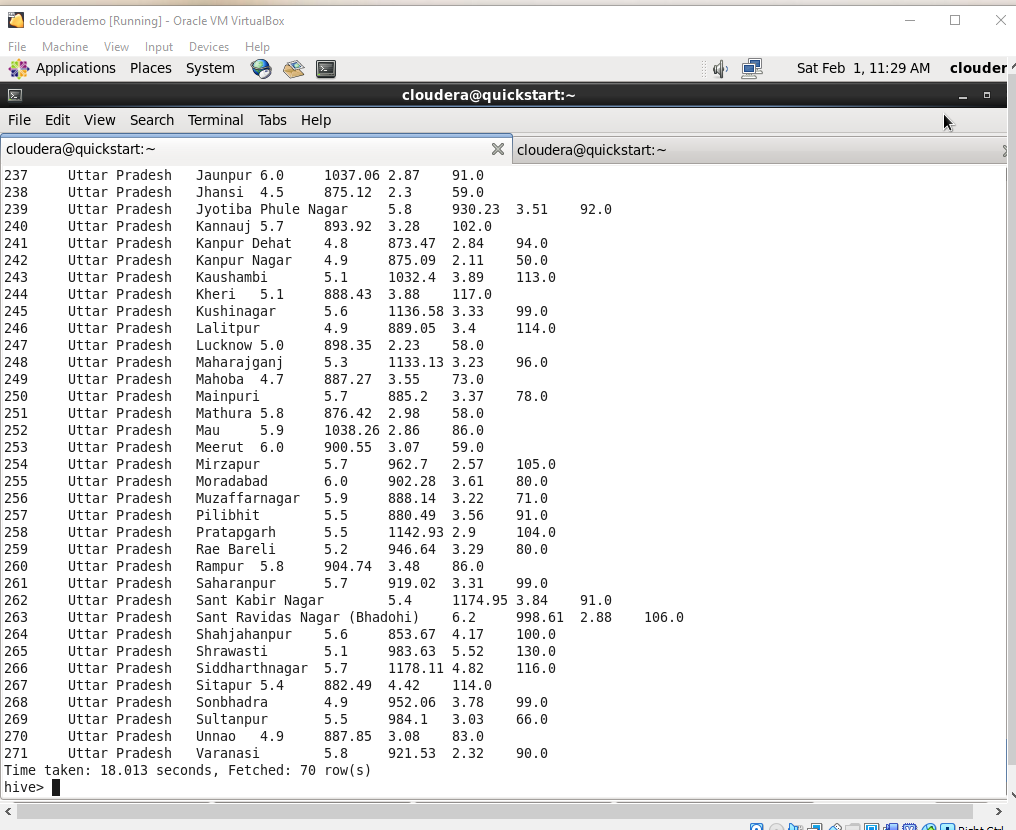












1. **Benchmarking performance on execution time results of query**

|  |  |  |  |
| --- | --- | --- | --- |
| Query | Default table | Orc table | Hive\_habase integrated |
| 1 | 23.972 | 22.161 | 25.897 |
| 2 | 23.898 | 23.459 | 25.567 |
| 3 | 15.328 | 14.832 | 18.013 |

**From the above analysis it is understood that storing as orc is the best in execution time.**

1. Partitioned queries

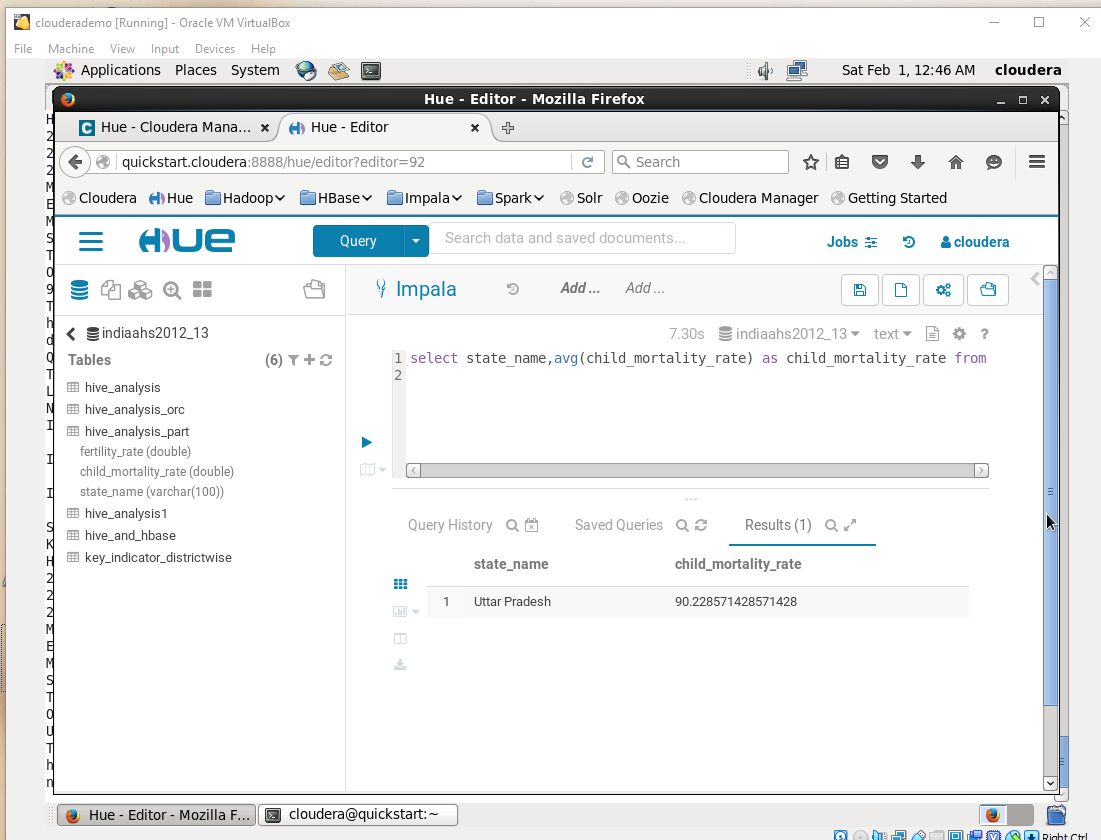
create external table if not exists hive\_analysis\_part(`fertility\_rate` double,`child\_mortality\_rate` double ) partitioned by (state\_name varchar(100));

insert overwrite table hive\_analysis\_part partition(state\_name) select fertlity\_rate,child\_mortality\_rate ,state\_name from hive\_analysis where state\_name in ('Uttar Pradesh','Bihar');

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

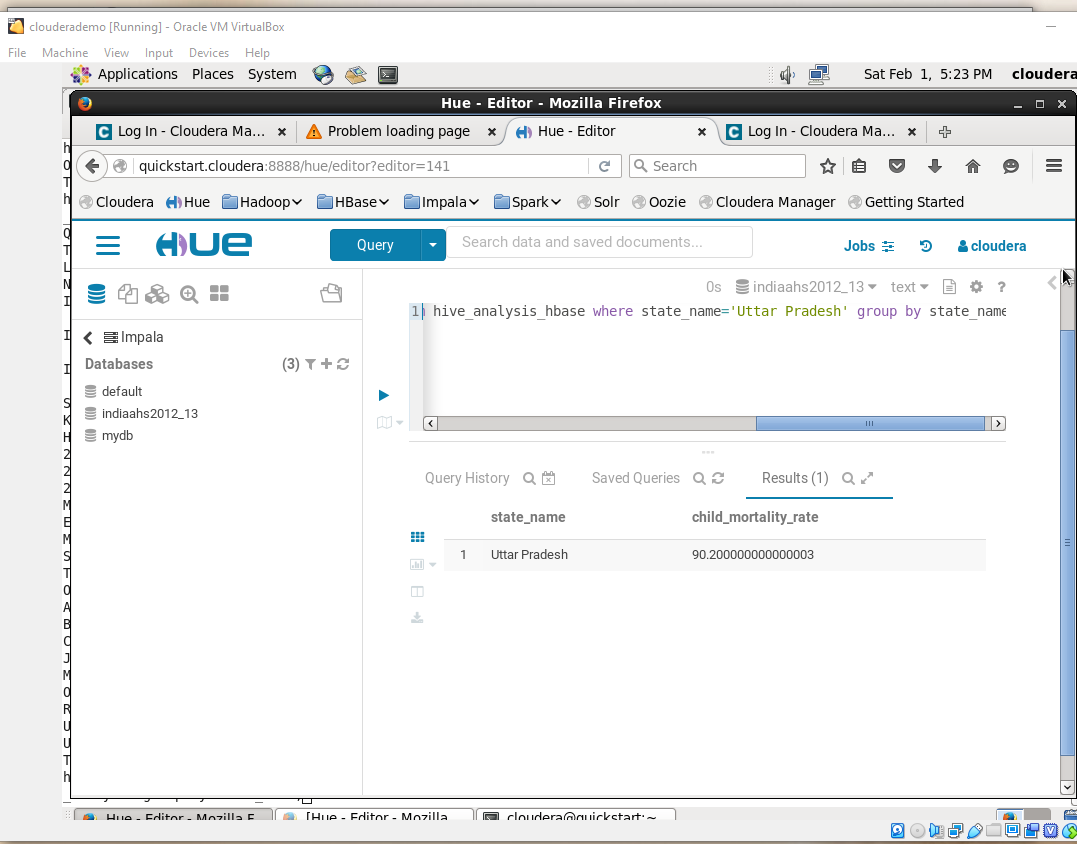
1. The child mortality rate of Uttar Pradesh

Query - select state\_name,round(avg(child\_mortality\_rate),1) as child\_mortality\_rate from hive\_analysis\_part where state\_name='Uttar Pradesh'group by state\_name;



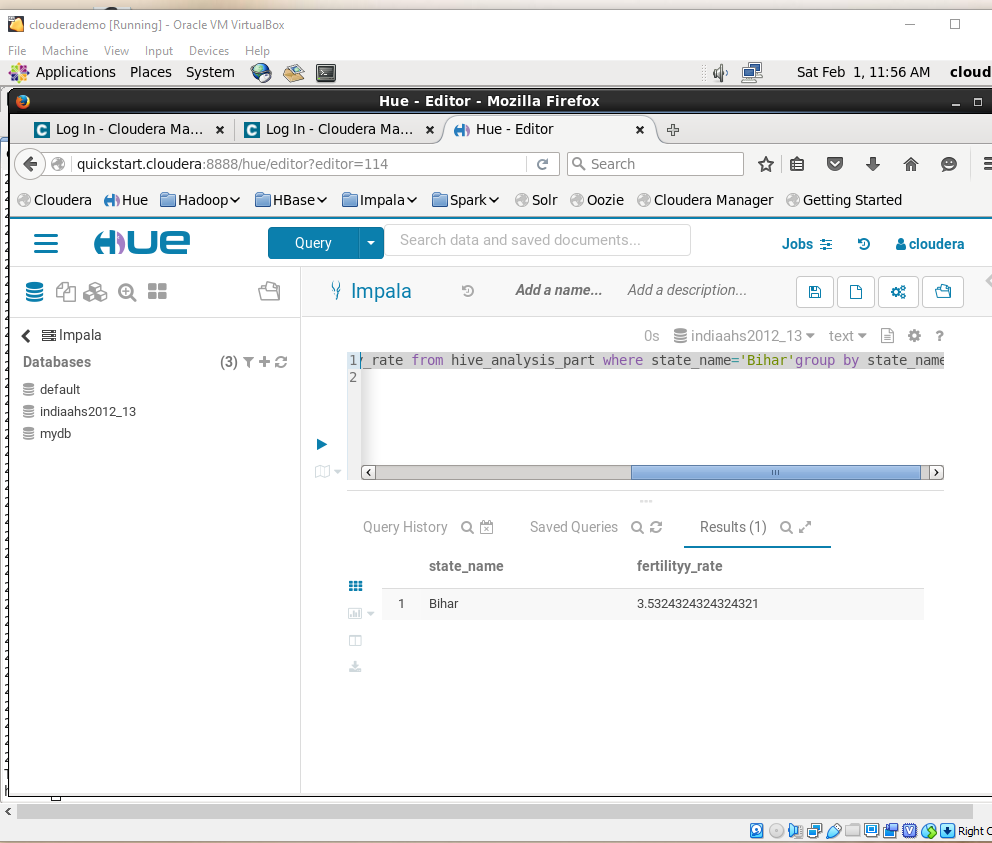
Query -Hive\_hbase

select state\_name,round(avg(child\_mortality\_rate),1) as child\_mortality\_rate from hive\_analysis\_hbase where state\_name='Uttar Pradesh' group by state\_name;



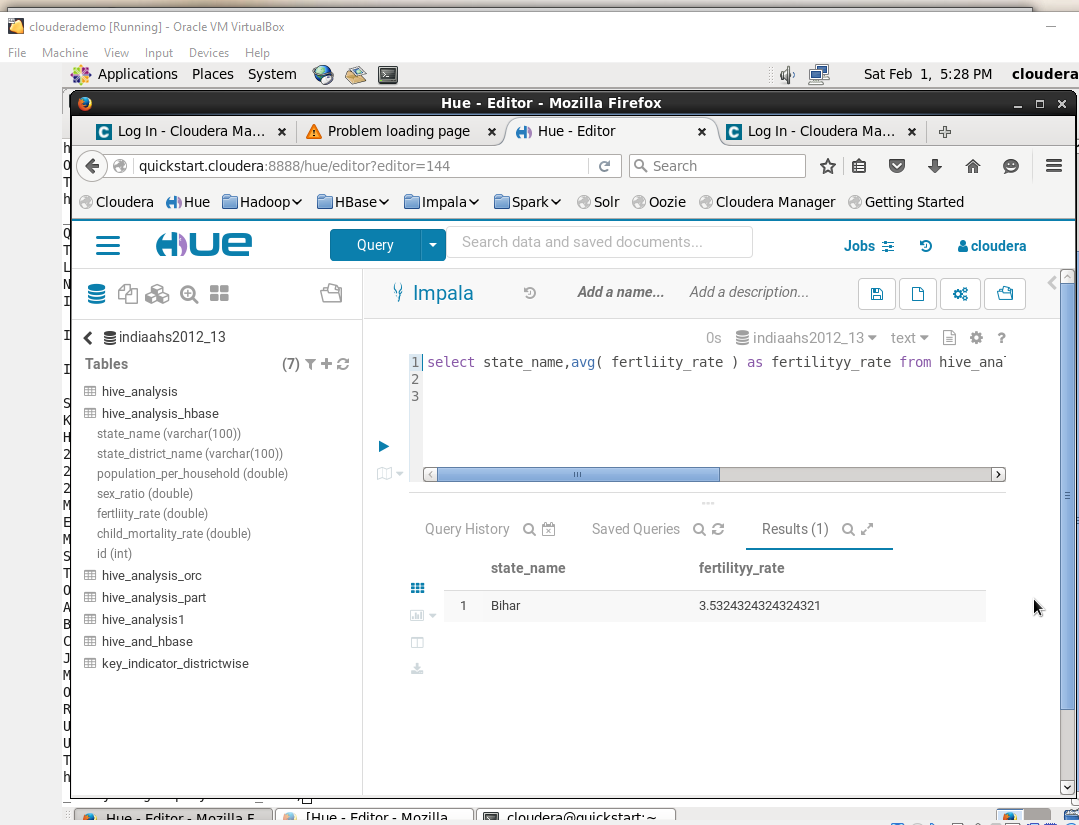
1. The fertility rate of Bihar

Query - select state\_name,avg(fertility\_rate) as fertilityy\_rate from hive\_analysis\_part where state\_name='Bihar'group by state\_name;



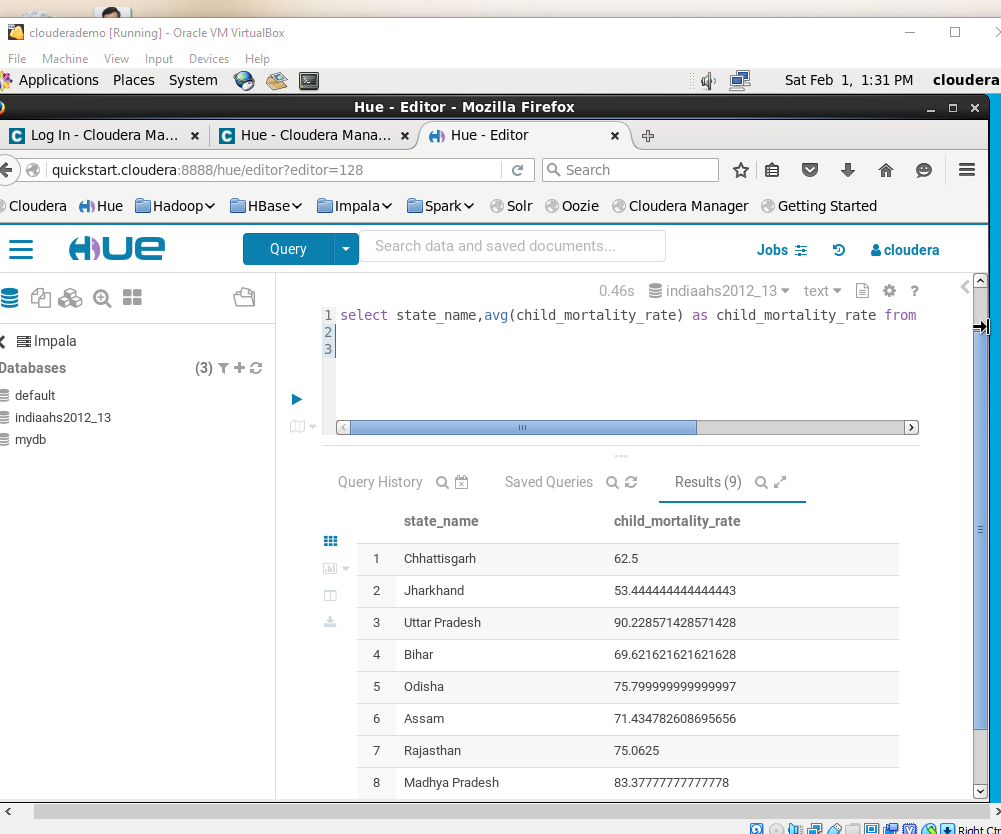
Query\_hive hbae

select state\_name,avg( fertliity\_rate ) as fertilityy\_rate from hive\_analysis\_hbase where state\_name='Bihar'group by state\_name;

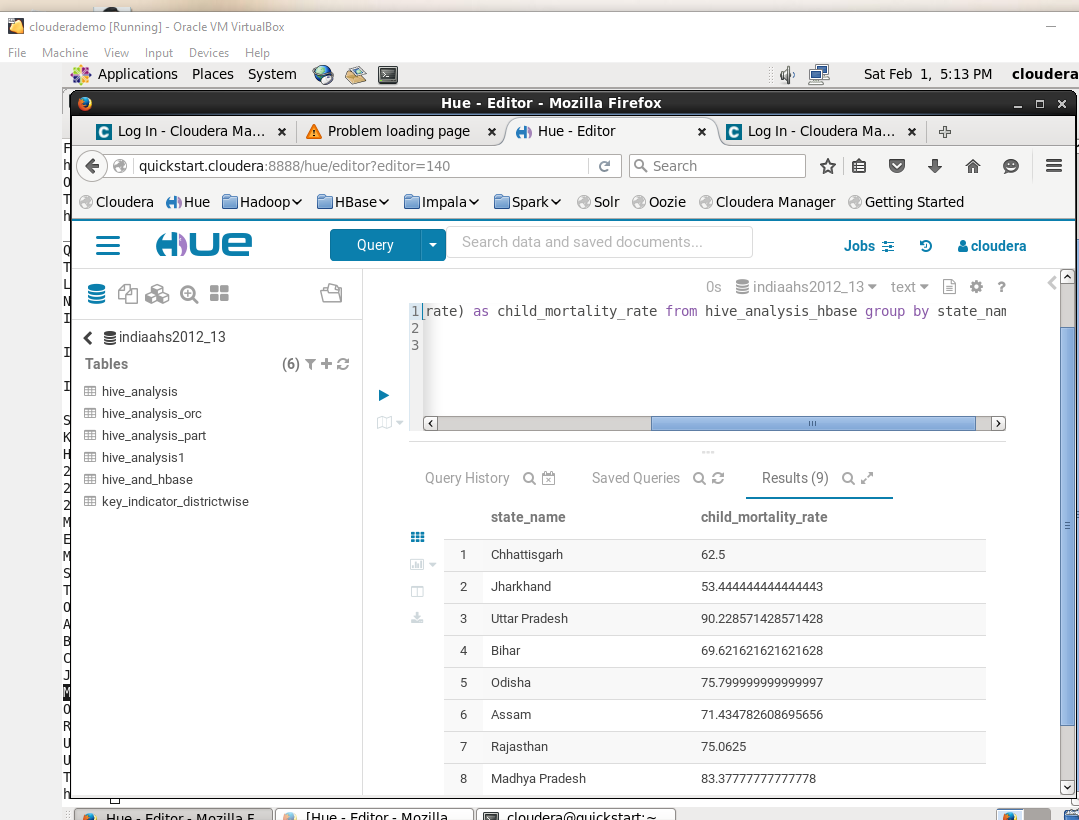


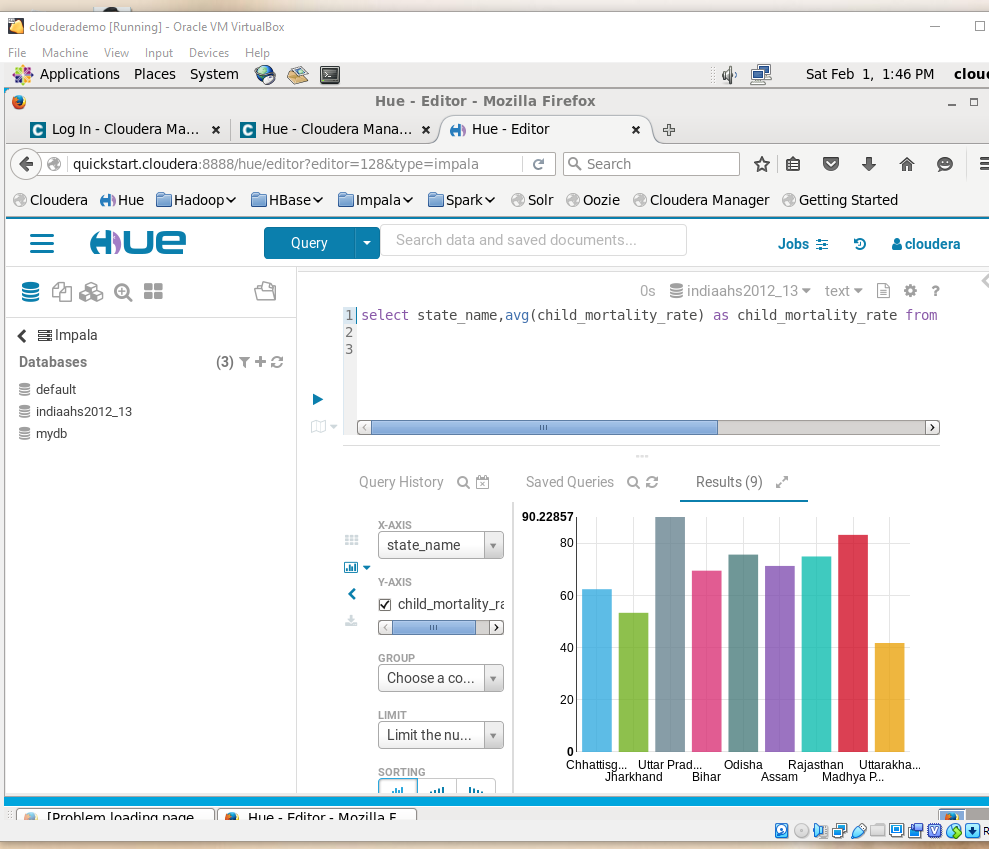
3.State wise child mortality rate and state wise fertility rate and does high fertility correlate with high child mortality?

Query - select state\_name,avg(child\_mortality\_rate) as child\_mortality\_rate from hive\_analysis group by state\_name;

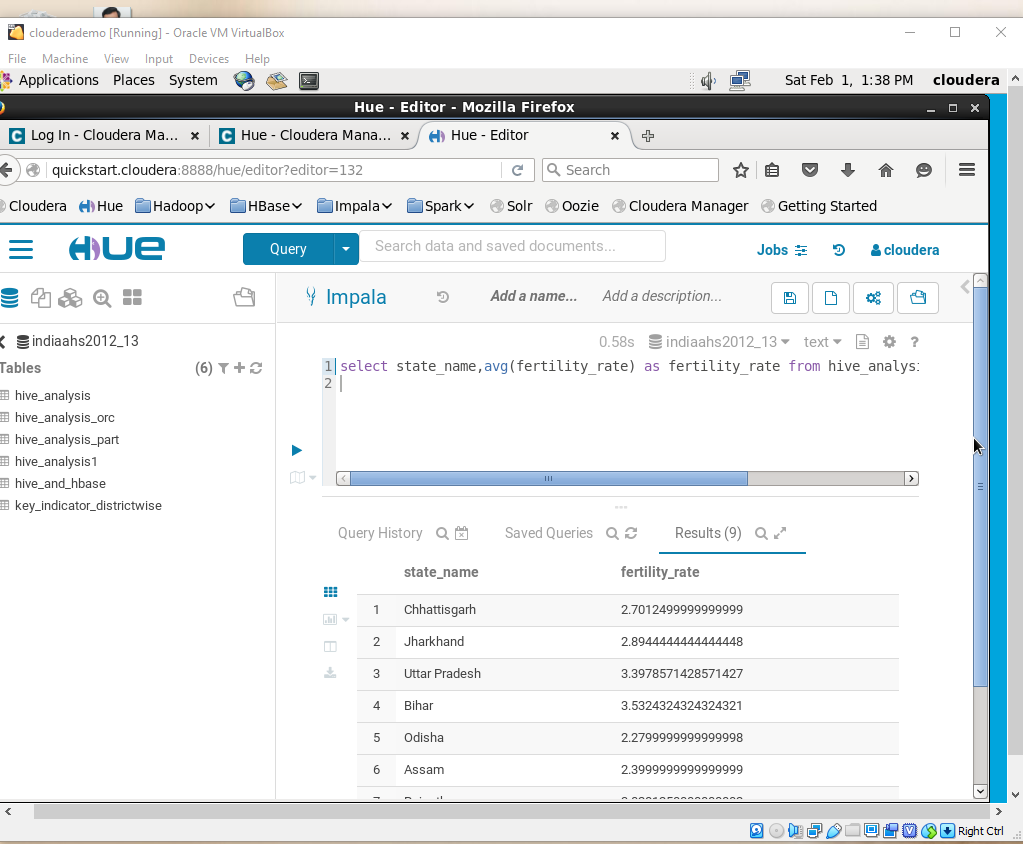


Query - select state\_name,avg(child\_mortality\_rate) as child\_mortality\_rate from hive\_analysis\_hbase group by state\_name;

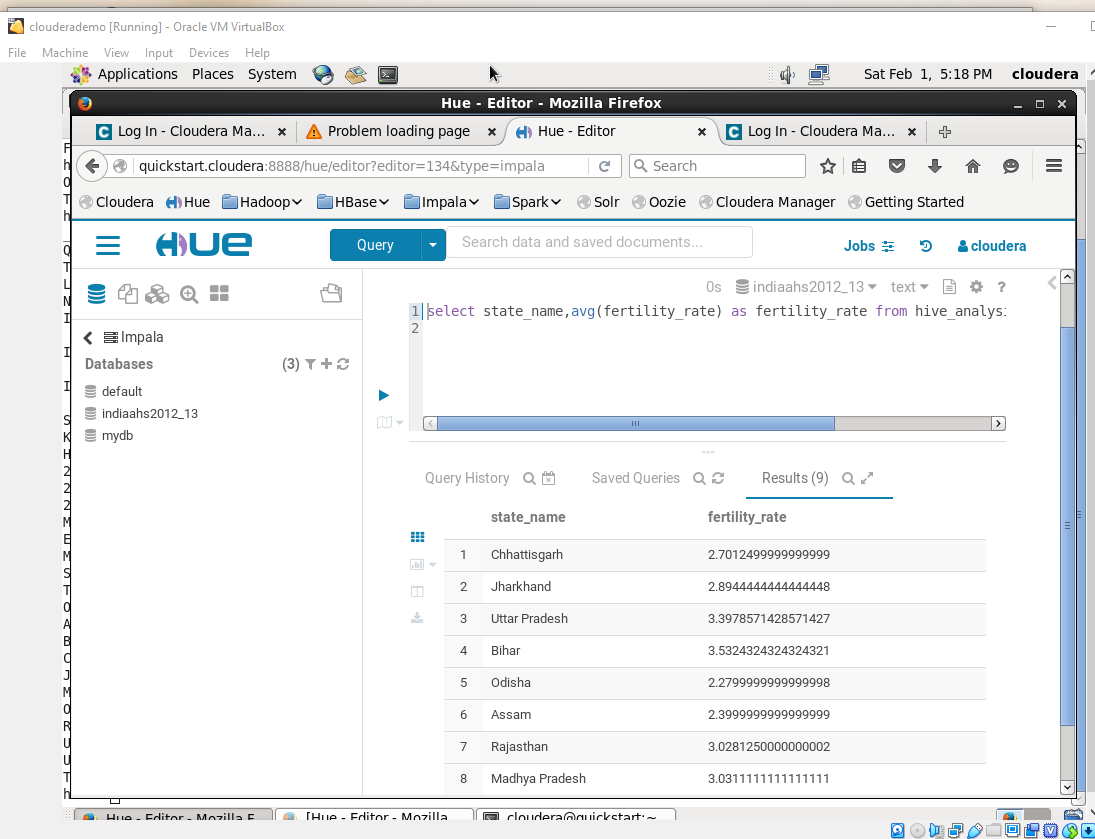




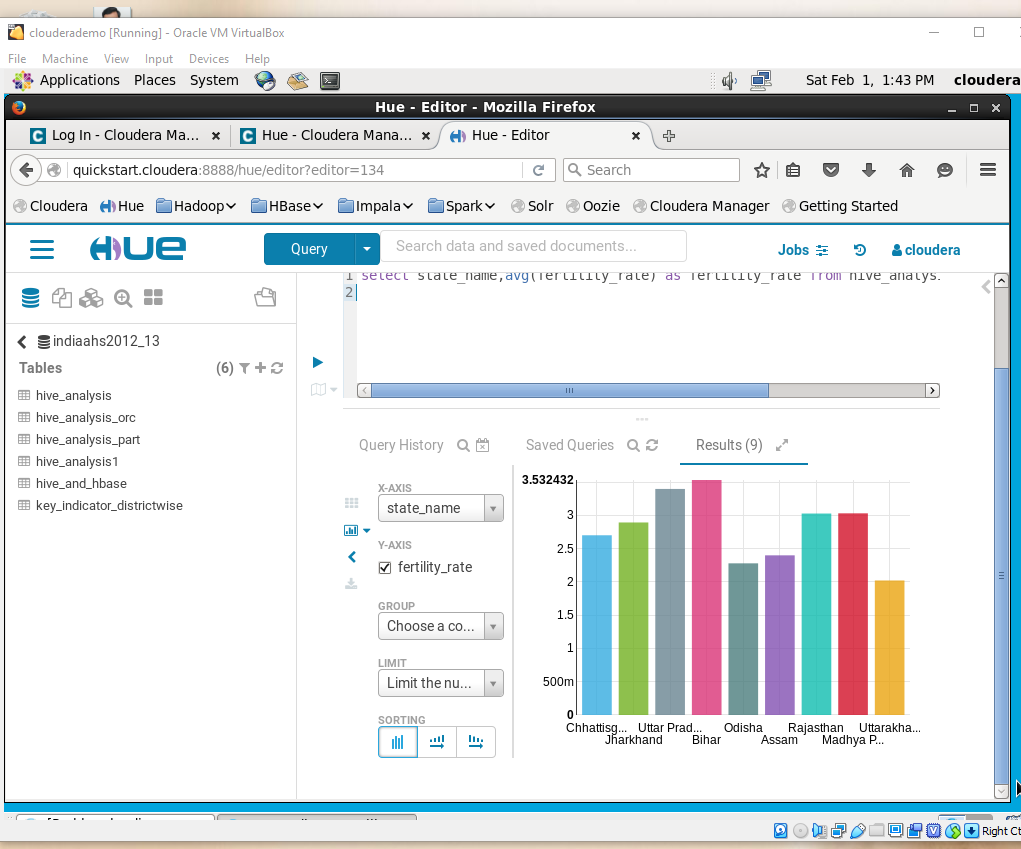
Query - select state\_name,avg(fertility\_rate) as fertility\_rate from hive\_analysis group by state\_name;



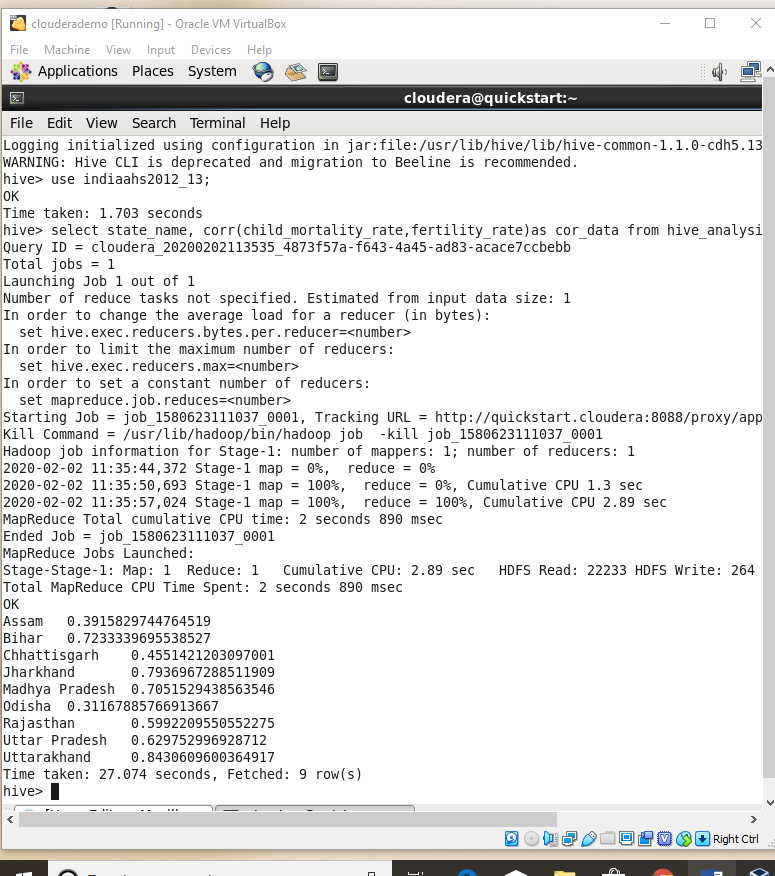
Query hive\_hbase- select state\_name,avg(fertility\_rate) as fertility\_rate from hive\_analysis\_hbase group by state\_name;

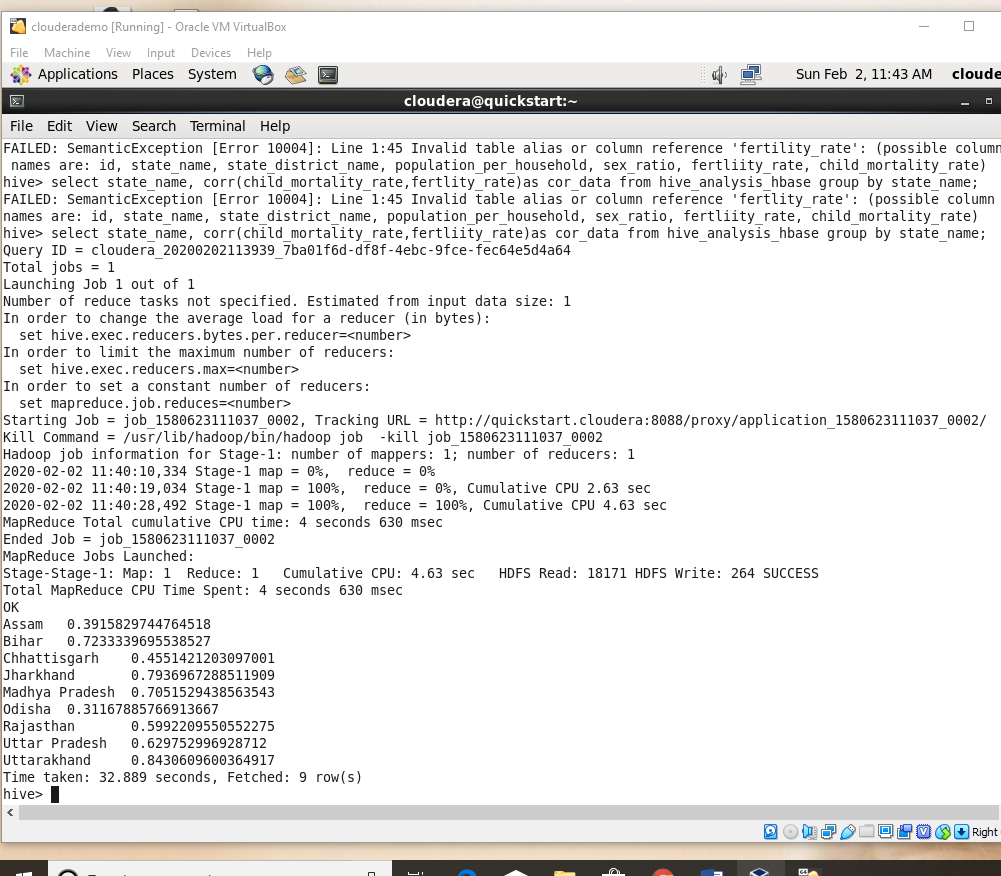


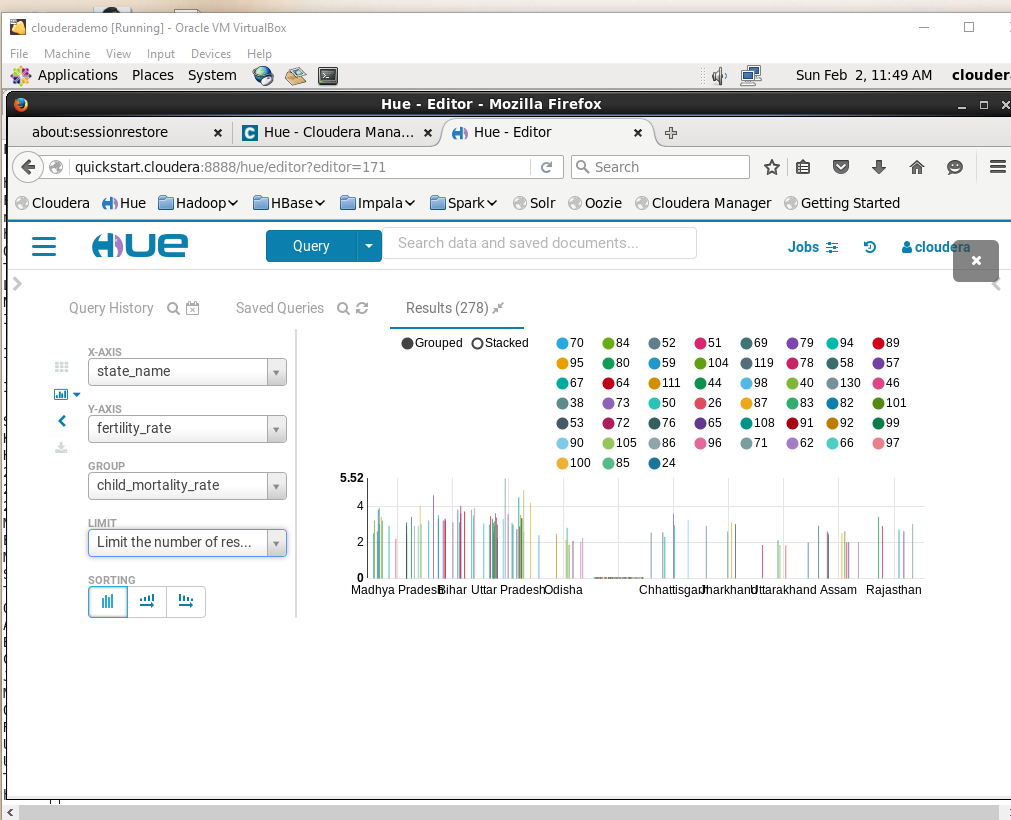
Chart



select state\_name, corr(child\_mortality\_rate,fertility\_rate)as cor\_data from hive\_analysis group by state\_name;



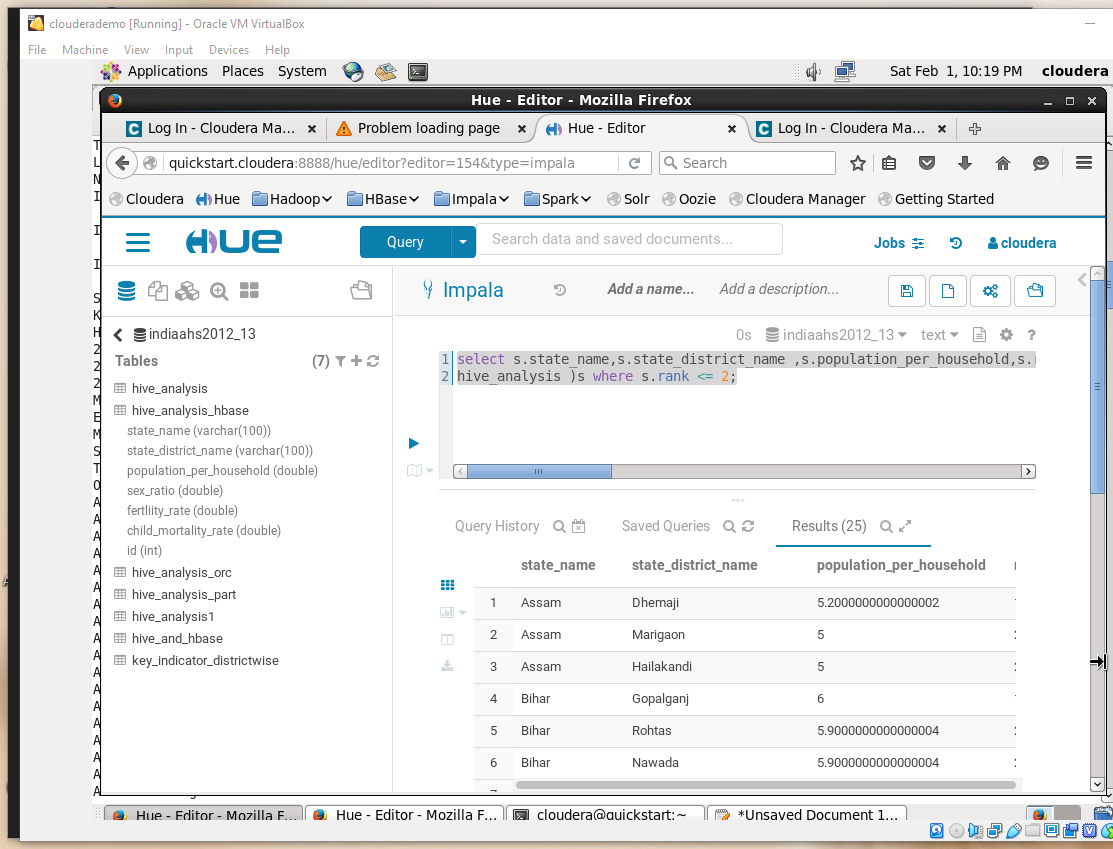




4. Find top 2 districts per state with the highest population per household

Query - select s.state\_name,s.state\_district\_name ,s.population\_per\_household,s.rank from (select state\_name, state\_district\_name,population\_per\_household,rank() over (partition by state\_name order by population\_per\_household desc) as rank from

hive\_analysis )s where s.rank <= 2;



Query\_hive\_hbase - select s.state\_name,s.state\_district\_name ,s.population\_per\_household,s.rank from (select state\_name, state\_district\_name,population\_per\_household,rank() over (partition by state\_name order by population\_per\_household desc) as rank from

hive\_analysis\_hbase )s where s.rank <= 2;

