**GROUP 13**

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**INTERNATIONAL HEALTH AND POPULATION MATRICS APPLICATION**

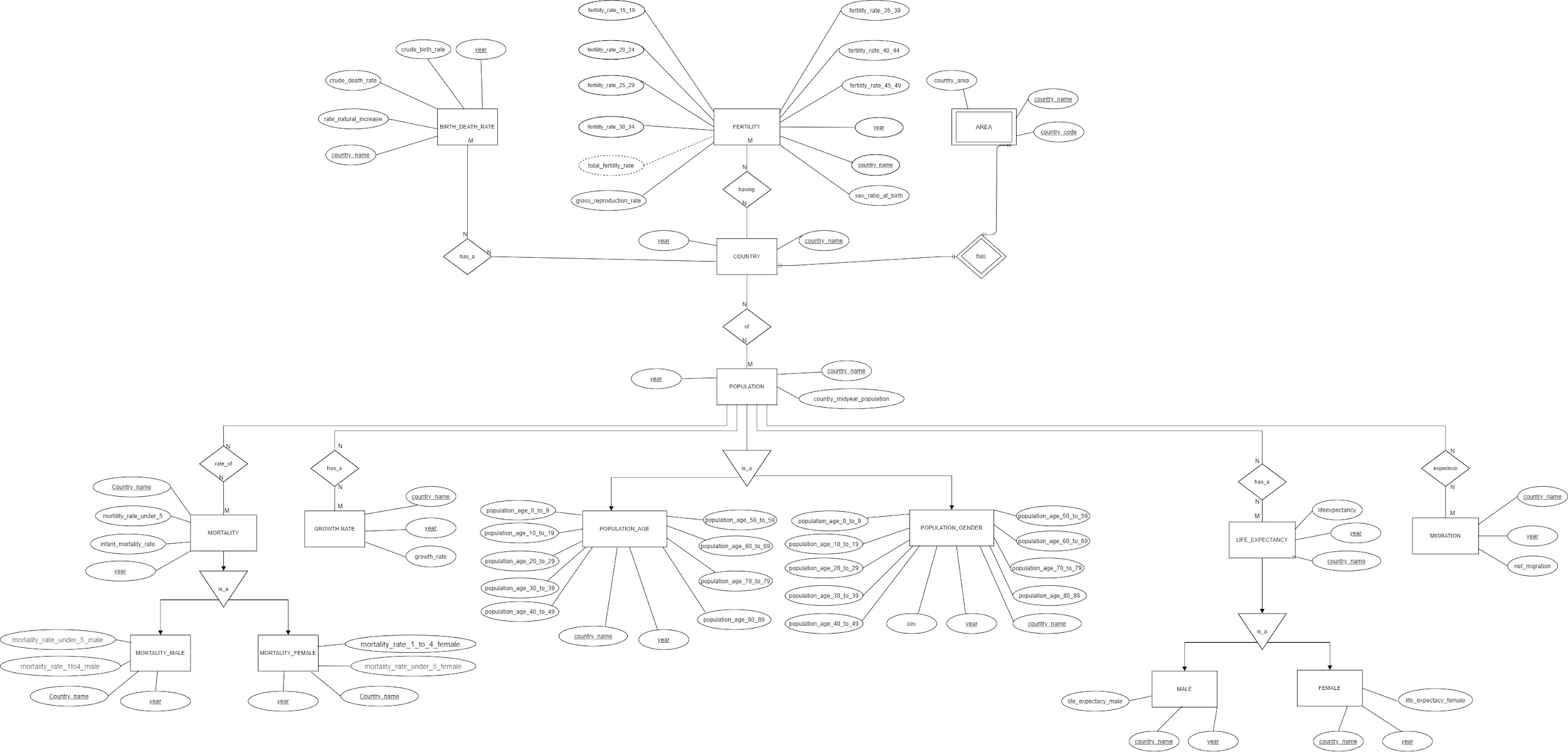
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# **ER-Diagram**



# **Relational Schema:**

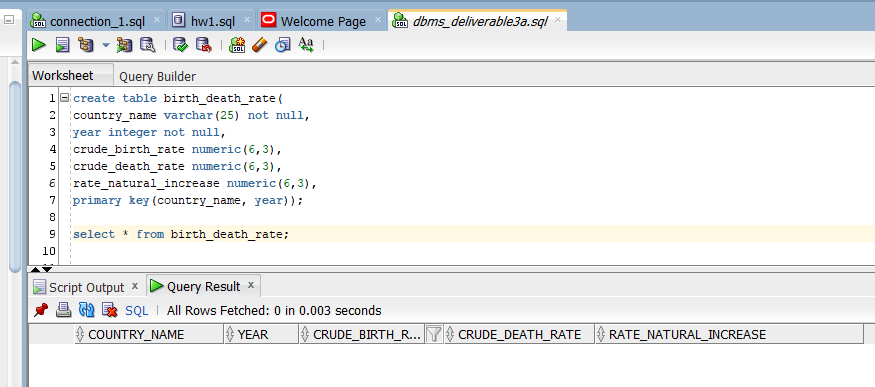
* Population\_age(Country\_name:String,year:Integer,Population\_age\_0\_to\_9:Integer, Population\_age\_10\_to\_19:Integer,Population\_age\_20\_to\_29:Integer,Population\_age\_30\_to\_39:Integer,Population\_age\_40\_to\_49:Integer,Population\_age\_50\_to\_59:Integer,Population\_age\_60\_to\_69:Integer,Population\_age\_70\_to\_79:Integer,Population\_age\_80\_to\_89:Integer)
* Population\_gender(Sex:String,Year:integer,country\_name:String,Population\_age\_0\_to\_9:Integer,Population\_age\_10\_to\_19:Integer,Population\_age\_20\_to\_29:Integer,Population\_age\_30\_to\_39:Integer,Population\_age\_40\_to\_49:Integer,Population\_age\_50\_to\_59:Integer,Population\_age\_60\_to\_69:Integer,Population\_age\_70\_to\_79:Integer,Population\_age\_80\_to\_89:Integer)
* Population(Country\_name:String,year:Integer,country\_midyear\_population: Integer)
* Country(Country\_code: String,Country\_name:String,year:Integer)
* Area(Country\_code: String, Country\_name:String,year:Integer,country\_area:Float)
* Migration( Country\_name:String,year:integer,Net\_Migration:Float)
* LifeExpectancy(Country\_name:String,year:Integer,Life\_Expectancy:float)
* Mortality(Country\_name:String,year:Integer,mortality\_rate\_under\_5:Float,infant\_mortality\_rate:Float)
* Mortality\_male(Country\_name:String,year:Integer,mortality\_rate\_under\_5\_male:Float,mortality\_rate\_1to4\_male: Float)
* Mortality\_female(Country\_name:String,year:Integer,mortality\_rate\_under\_5\_female: Float, mortality\_rate\_1to4\_female:Float)
* GrowthRate(Country\_name:String,year:Integer,Growth\_rate:Float)
* Birth\_death\_rate(Country\_name:String,year:Integer,crude\_birth\_rate:Float,crude\_death\_rate:Float, rate\_natural\_increase:Float)
* Fertility(Country\_name:String, year:Integer, sex\_ratio\_at\_birth:Float, fertility\_rate\_15\_19:

Float, fertility\_rate\_20\_24:Float, fertility\_rate\_25\_29:Float, fertility\_rate\_30\_34:Float, fertility\_rate\_35\_39:Float, fertility\_rate\_40\_44:Float, fertility\_rate\_45\_49:Float)

* Male(country\_name: String, year:Integer, life\_expectancy\_male: Float)
* Female(country\_name: String, year:Integer, life\_expectancy\_female: Float)

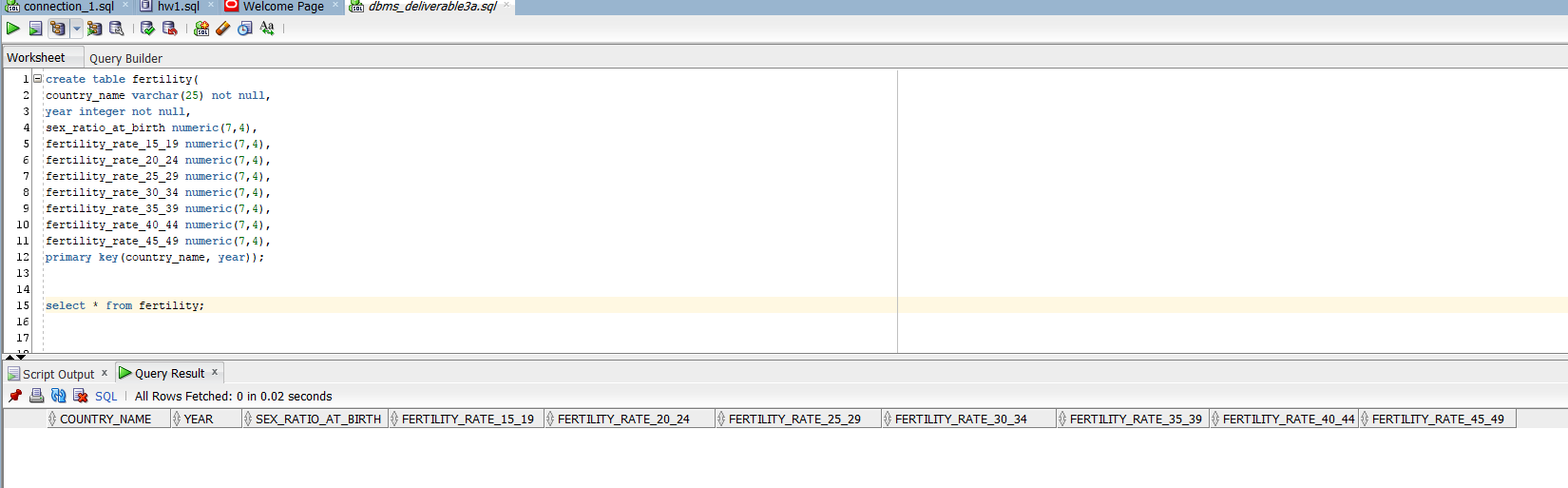
# **SQL Table Schemas**

* Birth\_death\_rate(Country\_name:String,year:Integer,crude\_birth\_rate:Float,crude\_death\_rate:Float, rate\_natural\_increase:Float)

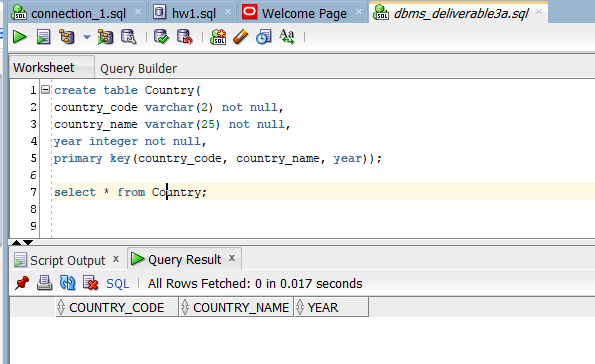


* Fertility(Country\_name:String, year:Integer, sex\_ratio\_at\_birth:Float, fertility\_rate\_15\_19:

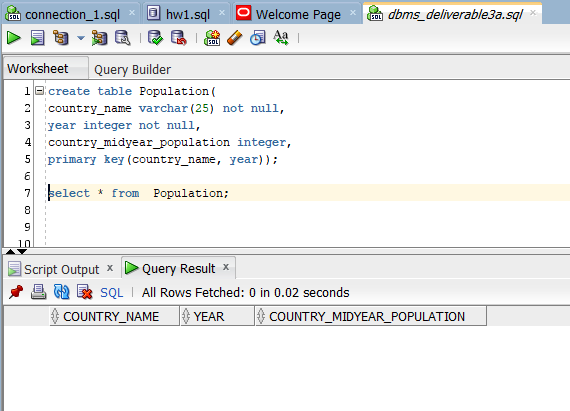
Float, fertility\_rate\_20\_24:Float, fertility\_rate\_25\_29:Float, fertility\_rate\_30\_34:Float, fertility\_rate\_35\_39:Float, fertility\_rate\_40\_44:Float, fertility\_rate\_45\_49:Float)



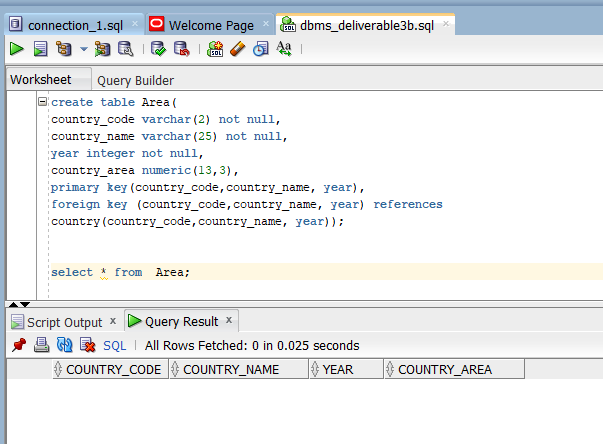
* Country(Country\_code: String,Country\_name:String,year:Integer)



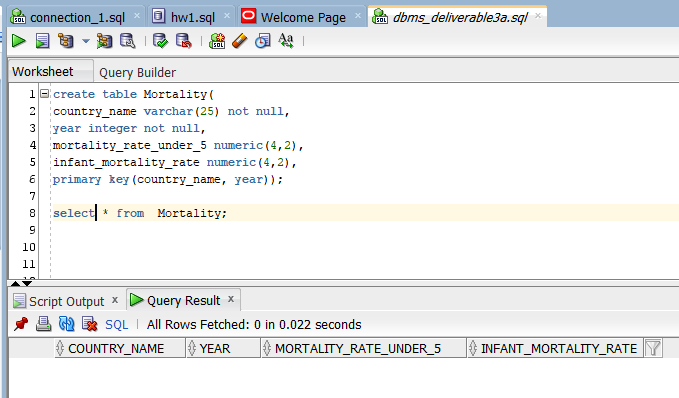
* Population(Country\_name:String,year:Integer,country\_midyear\_population: Integer)



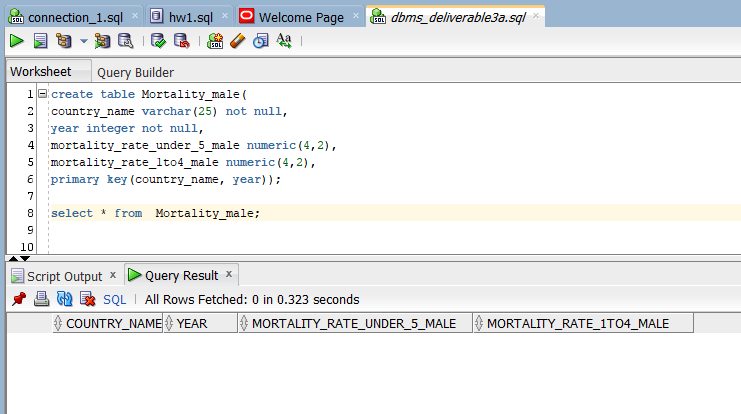
* Area(Country\_code:String,Country\_name:String,year:Integer,country\_area: Float)



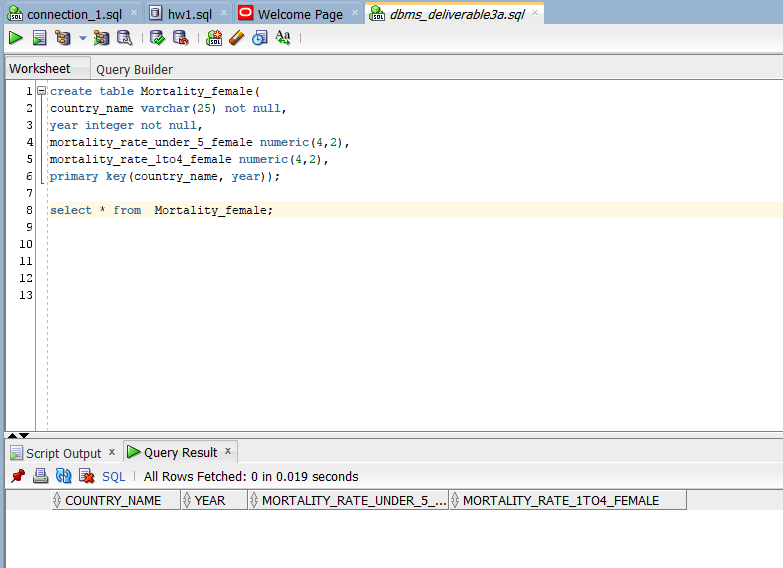
* Mortality(Country\_name:String,year:Integer,mortality\_rate\_under\_5:Float,infant\_mortality\_rate:Float)

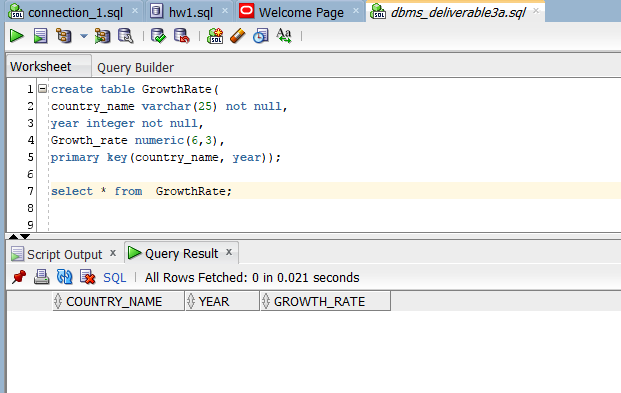


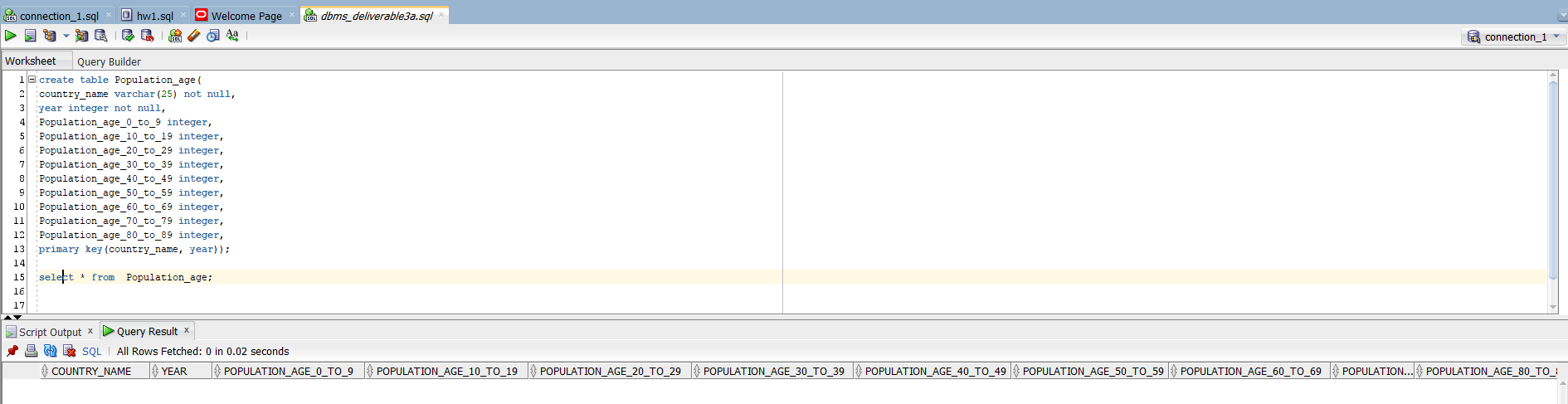
* Mortality\_male(Country\_name:String,year:Integer,mortality\_rate\_under\_5\_male:Float,mortality\_rate\_1to4\_male:Float)



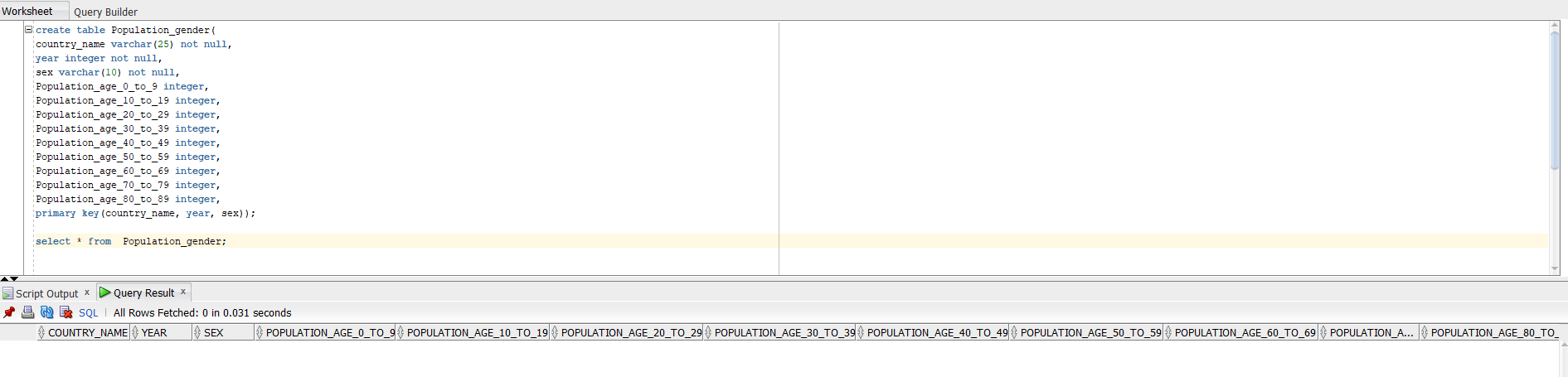
* Mortality\_female(Country\_name:String,year:Integer,mortality\_rate\_under\_5\_female: Float, mortality\_rate\_1to4\_female:Float)



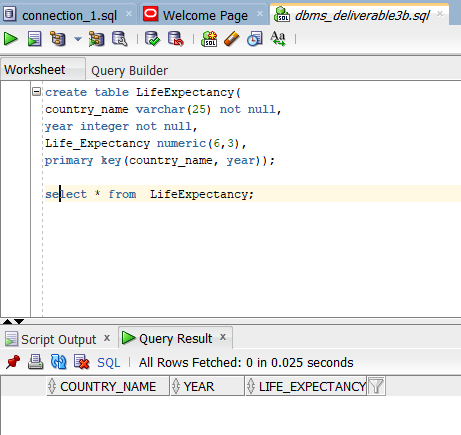
* GrowthRate(Country\_name:String,year:Integer,Growth\_rate:Float)
* Population\_age(Country\_name:String,year:Integer,Population\_age\_0\_to\_9:Integer,poPopulation\_age\_10\_to\_19:Integer,Population\_age\_20\_to\_29:Integer,Population\_age\_30\_to\_39:Integer,Population\_age\_40\_to\_49:Integer,Population\_age\_50\_to\_59:Integer,Population\_age\_60\_to\_69:Integer,Population\_age\_70\_to\_79:Integer,Population\_age\_80\_to\_89:Integer)



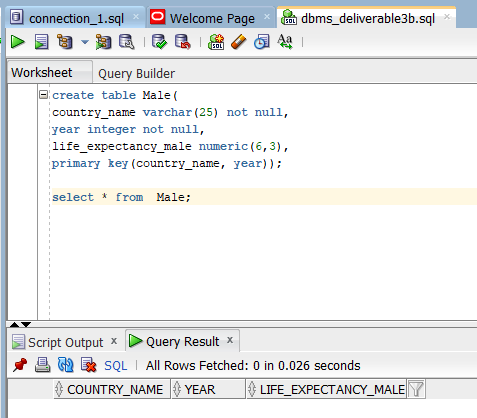
* Population\_gender(country\_name:String,Year:integer,Sex:String,Population\_age\_0\_to\_9:Integer,Population\_age\_10\_to\_19:Integer,Population\_age\_20\_to\_29:Integer,Population\_age\_30\_to\_39:Integer,Population\_age\_40\_to\_49:Integer,Population\_age\_50\_to\_59:Integer,Population\_age\_60\_to\_69:Integer,Population\_age\_70\_to\_79:Integer,Population\_age\_80\_to\_89:Integer)



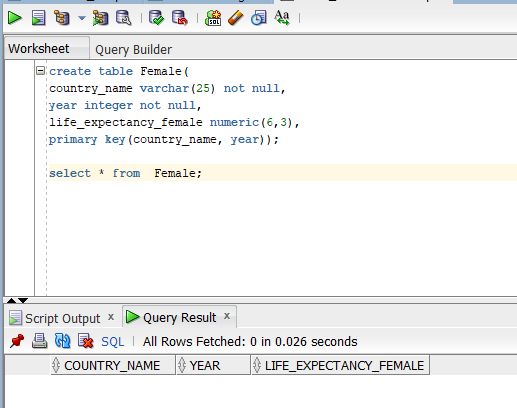
* LifeExpectancy(Country\_name:String,year:Integer,Life\_Expectancy:float)



* Male(country\_name: String, year:Integer, life\_expectancy\_male: Float)



* Female(country\_name: String, year:Integer, life\_expectancy\_female: Float)



* Migration( Country\_name:String,year:integer,Net\_Migration:Float)

