

Portfolio

CHANGHONG LI

APPLY FOR PROGRAMMER / DATA ANALYST

KNOW THE WORLD, THEN LOVE IT PROJECT 1

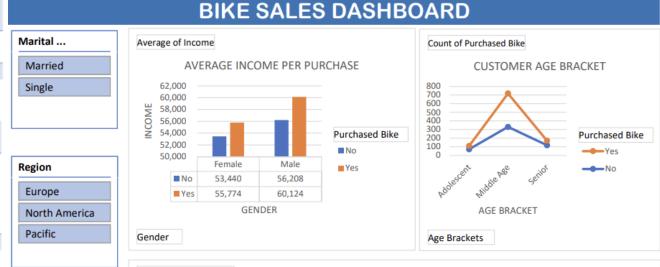
Bike Sale Data Analysis Advanced Excel

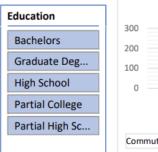
- Performed data cleaning in Excel.
- Created Pivot
 Tables to extract
 the significance
 from a large
 detailed data set.
- Visualized multiple sheets using Pivot Charts to calculate, analyze and interpret data.
- Created dashboard to demonstrate the result of data visualization.

Average of Income	Column	Column Labels					
Row Labels	No		Yes	Grand Total			
Female		53,440	55,774	54,581			
Male		56,208	60,124	58,063			
Grand Total		54,875	57,963	56,360			

Count of Purchased Bike	Column Labels			
Row Labels	No	Yes		Grand Total
0-1 Miles	10	66	200	366
1-2 Miles	9	92	77	169
2-5 Miles	(57	95	162
5-10 Miles	1:	16	76	192
>10 Miles		78	33	111
Grand Total	5	19	481	1000

Count of Purchased Bike	Column Labels			
Row Labels	No	Yes		Grand Total
Adolescent	7	1	39	110
Middle Age	33	1	388	719
Senior	11	.7	54	171
Grand Total	51	9	481	1000







KNOW THE WORLD, THEN LOVE IT PROJECT 2

Covid19 Cases Analysis Using SQL Excel | Microsoft SQL Server | SSMS

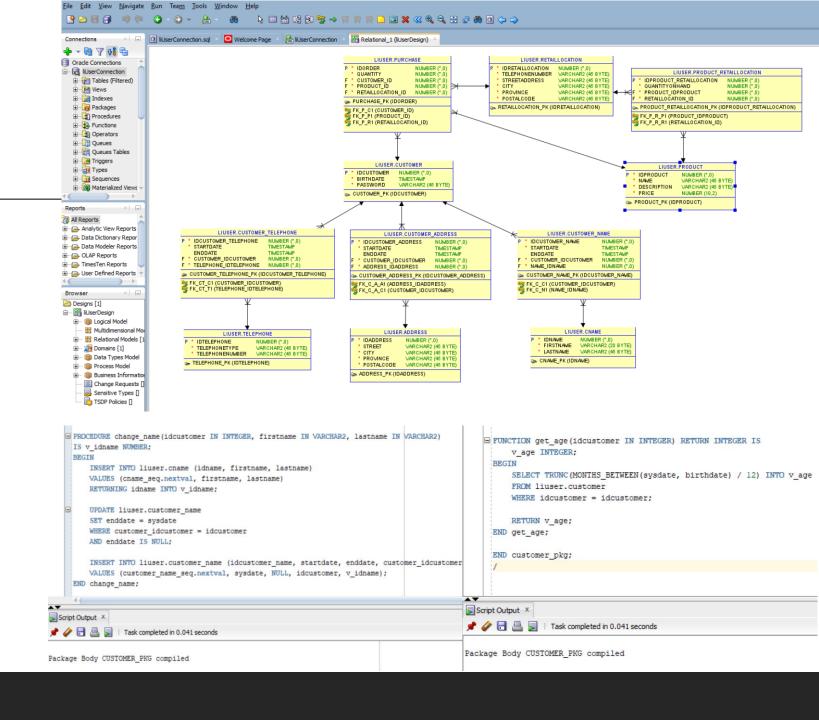
- Downloaded the data from authentic website, and then performed data cleaning in Excel.
- Imported table from external source in SQL Server Management Studio 19 (SSMS), used SQL queries to clean and format the data being ready to use.
- Used SQL queries to built functions, stored procedures, and triggers to be used for data retrieve, calculation, and analysis.
- To see the full project code, go to the link:
 https://github.com/li000811/PortfolioProject_C
 OVID19_CASES

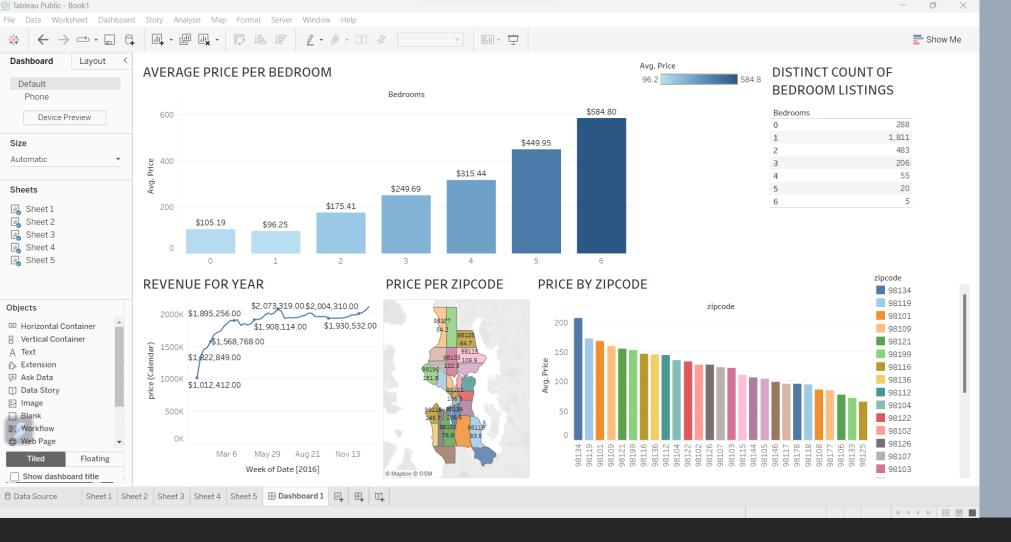
```
--Select Data that we are going to be using
     SELECT location, date, total_cases, new_cases, total deaths, population
     FROM PortfolioProject..CovidDeaths
     WHERE continent IS NOT NULL
     ORDER BY 1, 2
     SELECT * FROM PortfolioProject..CovidDeaths WHERE total cases = 0
     DELETE PortfolioProject..CovidDeaths WHERE total_cases = 0
17
     --Looking at the Total Cases vs Total Deaths
     --shows likehood of dying if you contract covid in your country
     SELECT location, date, total cases, total deaths,
     (total deaths/total cases)*100 AS death percentage
     FROM PortfolioProject..CovidDeaths
     WHERE location like 'Canada'
     ORDER BY 1, 2
     --looking at total cases vs population
     --shows what percentage of population got Covid
     SELECT location, date, population, total cases,
     (total_cases/population)*100 AS 'percent population infected'
     FROM PortfolioProject..CovidDeaths
     --WHERE location like'Canada'
     WHERE continent IS NOT NULL
     ORDER BY 1, 2
     --looking at which country with highest infection rate compared to population
     SELECT location, population, MAX(total cases) AS 'highest infection Country',
     MAX((total cases/population))*100 AS 'percent population infected'
     FROM PortfolioProject..CovidDeaths
     WHERE continent IS NOT NULL
     GROUP BY location, population
     ORDER BY 'percent population infected' DESC
```

KNOW THE WORLD, THEN LOVE IT PROJECT 3

Oracle SQL Project Oracle SQL Developer

- Installed Oracle server and Oracle SQL Developer, used sqlplus to create database and test data.
- Used SQL Developer to perform data modeling including of generating E-R diagram, engineering Logical Model.
- Based on the data model to create a package that shares items across a set of stored procedures and functions.
- To see the full project code, go to the link:
 https://github.com/li000811/Oracle-SQL-Project





- KNOW THE WORLD, THEN LOVE IT
- PROJECT 4

Seattle Airbnb Data Analysis

Excel | Tableau

- Used Excel to perform data cleaning.
- Created tables by importing data from external Excel sources to Tableau.
- Designed the relationship within different tables.
- Visualized multiple sheets such as Price by Zip code, Revenue for Year, Average Price per Bedroom to analyze and interpret data.
- Created the dashboard in Tableau to provide data visualisation and technical insight on data.