Section 1 - SQL

Table Name: Business

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **id** | **Business Number** | **Business Start Date** | **Region Id** | **Industry** | **Staff Numbers** | **Annual Net Profit** |
| 1 | 9429041352323 | 2016-01-28 | 3 | Catering | 53 | 218,214.25 |
| 2 | 4537898722468 | 2012-05-15 | 7 | Construction | 148 | 1,024,489.29 |
| 3 | ... |  |  |  |  |  |

Table Name: Region

|  |  |  |
| --- | --- | --- |
| **Region Id** | **Region Name** | **Region Code** |
| 1 | United States | US |
| 2 | United Kingdom | UK |
| 3 | Australia | AU |
| 4 | ... |  |

Part A:

Given the tables above, write a SQL query to return the Business Number, Business Start Date, Region Name, Industry, and Annual Net Profit for businesses created in the years 2012 to 2015.

SELECT

b.Business\_Number,

b.Business\_Start\_Date,

r.RegionName,

b.Industry,

b.Annual\_Net\_profit

FROM business b

INNER JOIN region r

ON b.RegionId = r.﻿RegionId

WHERE b.Business\_Start\_Date between CAST('2012-01-01' as date) and CAST('2016-01-01' as date)

Part B:

Write a SQL query that returns, for each region and industry combination, the *Average* *Annual Net Profit,* and an extra columnwith the number of businesses considered in the calculation*.*

SELECT

r.RegionName,

b.Industry,

COUNT(distinct b.Business\_Number) as Number\_of\_Business,

AVG(b.Annual\_Net\_Profit) as Avg\_Annual\_Net\_profit

FROM business b

INNER JOIN Region r

ON b.RegionId = r.﻿RegionId

GROUP BY r.RegionName , b.Industry