CS 457 - Homework Assignment 5: SQL Ali Hashir ah05433@st.habib.edu.pk

Part 1:

Create Table Queries

```
1 CREATE TABLE employee_attr_1(
                EmployeeNumber INTEGER NOT NULL PRIMARY KEY
,Ase INTEGER NOT NULL
             Age INTEGER NOT NULL

BusinesaTravel VARCHAR(17) NOT NULL

DailyRate INTEGER NOT NULL

Department VARCHAR(22) NOT NULL

DistanceFromHome INTEGER NOT NULL

Education INTEGER NOT NULL

EducationField VARCHAR(16) NOT NULL
               ,EnvironmentSatisfaction INTEGER NOT NULL
             ,EnvironmentSatiafaction INTEGER NOT NULL
,Gender VARCHAR(6) NOT NULL
,HourlyRate INTEGER NOT NULL
,Joblevel INTEGER NOT NULL
,JobSatiafaction INTEGER NOT NULL
,MaritalStatua VARCHAR(8) NOT NULL
,MonthlyIncome INTEGER NOT NULL
,MonthlyRate INTEGER NOT NULL
,NumCompaniesWorked INTEGER NOT NULL
,PercentSalaryHike INTEGER NOT NULL
,RelationshipSatiafaction INTEGER NOT NULL
,RelationshipSatiafaction INTEGER NOT NULL
,RelationshipSatiafaction INTEGER NOT NULL
 11
 13
               ,RelationshipSatisfaction INTEGER NOT NULL
             , MELETORAHIPSATIAFACTION INTEGER NOT NULL
, StandardHoura INTEGER NOT NULL
, StandardHoura INTEGER NOT NULL
, TotalMarkingYeara INTEGER NOT NULL
, TrainingTimeaLeatYear INTEGER NOT NULL
, WorkLifeBalance INTEGER NOT NULL
, YearaAcCompany INTEGER NOT NULL
, YearaInCurrentRole INTEGER NOT NULL

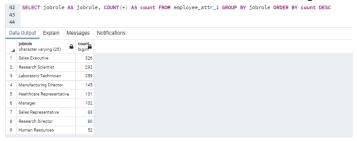
 28
               ,YearsSinceLestPromotion INTEGER NOT NULL
 32
                ,YearsWithCurrManager
                                                                                 INTEGER NOT NULL
 33 );
 34 CREATE TABLE employee_attr_2(
               EmployeeNumber INTEGER NOT NULL PRIMARY KEY
an progressianter INTEGER NOT NULL PR
36 ,Overle VARCHAR(1) NOT NULL
37 ,Overline VARCHAR(3) NOT NULL
38 ,Attrition VARCHAR(3) NOT NULL
39 ):
```

Query Tasks

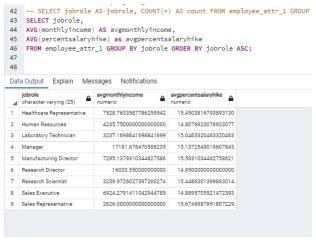
1. the count of total number of records in the table



2. the count of records for each JobRole in descending order of count



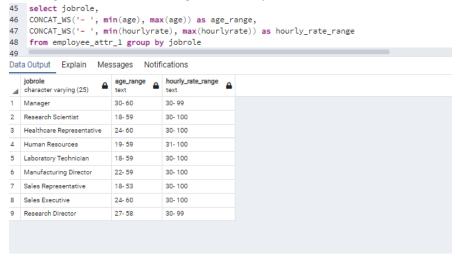
3. the average MonthlyIncome and PercentSalaryHike for each JobRole in ascending order of JobRole



4. the average JobSatisfaction for each Gender and MaritalStatus



5. the range (Min and Max) of Age and HourlyRate for each JobRole



6. Join two tables for EmployeeAttrition1.csv and EmployeeAttrition2.csv and display 20 records with the following columns

```
select el.EmployeeNumber, el.Age, el.Gender, el.JobRole, e2.OverTime, e2.Attrition
from employee_attr_1 as el
inner join employee_attr_2 as e2
on el.employeenumber=e2.employeenumber LIMIT 20;
```

Data Output Explain Messages Notifications

4	employeenumber integer	age intege	gender character varying (6)	jobrole character varying (25)	overtime character varying (3)	attrition character varying (3)
1	1	41	Female	Sales Executive	Yes	Yes
2	2	49	Male	Research Scientist	No	No
3	4	37	Male	Laboratory Technician	Yes	Yes
4	5	33	Female	Research Scientist	Yes	No
5	7	27	Male	Laboratory Technician	No	No
6	8	32	Male	Laboratory Technician	No	No
7	10	59	Female	Laboratory Technician	Yes	No
8	11	30	Male	Laboratory Technician	No	No
9	12	38	Male	Manufacturing Director	No	No
10	13	36	Male	Healthcare Representative	No	No
11	14	35	Male	Laboratory Technician	No	No
12	15	29	Female	Laboratory Technician	Yes	No
13	16	31	Male	Research Scientist	No	No
14	18	34	Male	Laboratory Technician	No	No
15	19	28	Male	Laboratory Technician	Yes	Yes
16	20	29	Female	Manufacturing Director	No	No
17	21	32	Male	Research Scientist	Yes	No
18	22	22	Male	Laboratory Technician	Yes	No
19	23	53	Female	Manager	No	No
20	24	38	Male	Research Scientist	Yes	No