Assignment3 (Manami Oyama 100812125)

1)
<query></query>
CREATE TABLE attrition
(
Attrition string,
JobRole string
);
INSERT OVERWRITE TABLE attrition
SELECT COUNT(Attrition) AS Count, JobRole
FROM employee
WHERE Attrition = "Yes" AND JobRole LIKE "%Sales%"
GROUP BY JobRole;
20 jobrole 57 Sales Executive 33 Sales Representative CREATE TABLE Non_Attrition
Attrition string,
JobRole string
);
INSERT OVERWRITE TABLE non_attrition
SELECT COUNT(Attrition) AS Attrition_count, JobRole
FROM employee
WHERE Attrition = "No" AND JobRole LIKE "%Sales%"
GROUP BY JobRole;

non_attrition.attrition	non_attrition.jobrole
269	Sales Executive
50	Sales Representative

Jobrole

Sales Executive

attrition monthlyincome

7489.0

2364.7272727272725

Sales Executive No 6804.617100371747

Sales Representative No 2798.44

Sales Representative Yes

```
2)
<Query>
>>Average
CREATE TABLE average_monthly_income
Attrition string,
MonthlyIncome int,
JobRole string
);
INSERT OVERWRITE TABLE average_monthly_income
SELECT Attrition, MonthlyIncome, JobRole
FROM employee;
SELECT JobRole, Attrition, AVG(MonthlyIncome) AS MonthlyIncome
FROM average_monthly_income
WHERE JobRole LIKE "%Sales%"
GROUP BY JobRole, Attrition;
-----
```

```
>>min
CREATE TABLE min_monthly_income
Attrition string,
MonthlyIncome int,
JobRole string
);
INSERT OVERWRITE TABLE min_monthly_income
SELECT Attrition, MonthlyIncome, JobRole
FROM employee;
SELECT JobRole, Attrition, MIN(MonthlyIncome) AS MonthlyIncome
FROM min_monthly_income
WHERE JobRole LIKE "%Sales%"
GROUP BY JobRole, Attrition;
 jobrole
             attrition monthlyincome
 Sales Executive No
                   4007
 Sales Executive Yes
 Sales Representative No 1052
 Sales Representative Yes
                   1081
>>Max
CREATE TABLE max_monthly_income
Attrition string,
MonthlyIncome int,
JobRole string
);
INSERT OVERWRITE TABLE max_monthly_income
SELECT Attrition, MonthlyIncome, JobRole
```


jobrole	attrition	monthlyincome
Sales Executive	No	13872
Sales Executive	Yes	13756
Sales Representative	Ne	6632

Sales Representative Yes 4400

3) <With Attrition> -----CREATE TABLE withattrition Attrition string, MonthlyIncome int, JobRole string); -----INSERT OVERWRITE TABLE withattrition SELECT Attrition, MonthlyIncome, JobRole FROM employee; -----SELECT JobRole, AVG(MonthlyIncome) AS monthlyincome, COUNT(JobRole) AS count FROM withattrition WHERE JobRole LIKE "%Sales%" AND Attrition = 'No' GROUP BY JobRole; -----

jobrole	monthlyIncome	count
Sales Executive	7489.0	57
Sales Representative	2364 7272727272725	33

<Without Attrition>

CREATE TABLE withoutattrition

(

Attrition string

MonthlyIncome int

JobRole string,

);

INSERT OVERWRITE TABLE without attrition

SELECT Attrition, MonthlyIncome, JobRole

FROM employee;

 $SELECT\ JobRole,\ AVG(MonthlyIncome)\ AS\ monthlyincome,\ COUNT(JobRole)\ AS\ count$

FROM withoutattrition

WHERE JobRole LIKE "%Sales%" AND Attrition = 'No'

GROUP BY JobRole;

jobrole	monthlyincome	count
Sales Executive	6804,617100371747	269
Sales Representative	2798.44	50