**Onlinesales.ai assignment**

**Task-1**

Fetchdepartments along with their name and average monthly salary. Below is the format of the report.

|  |  |
| --- | --- |
| **DEPT\_NAME** | **AVG\_MONTHLY\_SALARY (USD)** |

**Solution**

**Brief of database tables and columns**

**A screenshot of a computer

Description automatically generated with medium confidence**

**Sql query for the desired output is**

select monthdata.name as DEPT\_NAME,round(avg(sup),0) as `AVG\_MONTHLY\_SALARY (USD)` from (select d.name,s.`month (yyyymm)`,(sum(`amt (usd)`)) sup from departments d inner join employees e on d.id=e.`dept id` inner join salaries s on e.id=s.emp\_id group by d.name,s.`month (yyyymm)`) monthdata group by monthdata.name;

**Output is as follows**

A screenshot of a graph

Description automatically generated with low confidence

**Task-2**

**Scripting is provide in the folders of repo**

**Task-3**

**Corrected Bash Scripting**

#!/bin/bash

N=$1

if [ $N -lt 10 ]

then

OUT=$((N\*N))

elif [ $N -lt 20 ]

then

OUT=1

LIM=$((N - 10))

for (( i=1; i<=$LIM; i++ ))

do

OUT=$((OUT \* i))

done

else

LIM=$((N - 20))

OUT=0

for (( i=1; i<=$LIM; i++ ))

do

OUT=$((OUT + i))

done

fi

echo $OUT

**Corrected python Script**

def compute(n):

if n < 10:

out = n \*\* 2

elif n < 20:

out = 1

for i in range(1, n-10+1):

out \*= i

else:

lim = n - 20

out = 0

for i in range(1, lim+1):

out += i

print(out)

n = int(input("Enter an integer: "))

compute(n)