DATA ANALYST PORTFOLIO SQL PROJECT

POWER BI REPORTS IN SQL

Employee Count:

```
select sum(employee_count) as Employee_Count from hrdata;
```

Attrition Count:

```
select count(attrition) from hrdata where attrition='Yes';
```

Attrition Rate:

```
select
round (((select count(attrition) from hrdata where attrition='Yes')/
sum(employee_count)) * 100,2) from hrdata;
```

Active Employee:

```
select sum(employee_count) - (select count(attrition) from hrdata  where attrition='Yes')
from hrdata;
```

OR

```
select (select sum(employee_count) from hrdata) - count(attrition) as active_employee from
hrdata where attrition='Yes';
```

Average Age:

```
select round(avg(age),0) from hrdata;
```

Attrition by Gender

```
select gender, count(attrition) as
attrition_count from hrdata where attrition='Yes' group by
gender
order by count(attrition) desc;
```

Department wise Attrition:

```
select department, count(attrition), round((cast (count(attrition) as numeric) /  (select
count(attrition) from hrdata where attrition= 'Yes')) * 100, 2) as pct from hrdata where
attrition='Yes' group by department  order by count(attrition) desc;
```

No of Employee by Age Group

```
SELECT age_band,  sum(employee_count) AS employee_count FROM hrdata
GROUP BY age_band
order by age_band;
```

Education Field wise Attrition:

```
select education_field, count(attrition) as attrition_count from hrdata
where attrition='Yes' group by education_field order by
count(attrition) desc;
```

Attrition Rate by Gender for different Age Group select

```
age_band, gender, count(attrition) as attrition,
round((cast(count(attrition) as numeric) / (select count(attrition) from hrdata where attrition = 'Yes'))
* 100,2) as pct from hrdata
where attrition = 'Yes' group by
age_band, gender order by
age_band, gender desc;
```

Job Satisfaction Rating

```
CREATE EXTENSION IF NOT EXISTS tablefunc;

SELECT *
FROM crosstab(
  'SELECT job_role, job_satisfaction, sum(employee_count)
   FROM hrdata
```

```
  GROUP BY job_role, job_satisfaction
  ORDER BY job_role, job_satisfaction'
        ) AS ct(job_role varchar(50), one numeric, two numeric, three numeric, four numeric)
ORDER BY job_role;
```