

Power Bi & SQL query matching sheet :

	Match Exactly
	Does Not Match

Sheet name	Power Bi	SQL Query					
1) KPI - Employee Count		<pre>19 select *FROM hrdata 20 21 22 select sum(employee_count) as Employee_Count from hrdata;</pre> <p>Data Output Messages Notifications</p> <table><tr><td>employee_count</td><td>numeric</td></tr><tr><td>1</td><td>1470</td></tr></table>	employee_count	numeric	1	1470	
employee_count	numeric						
1	1470						
2) KPI- Attrition Count		<pre>20 select *FROM hrdata 21 22 select count(attrition) from hrdata 23 where attrition = 'Yes';</pre> <p>Data Output Messages Notifications</p> <table><tr><td>count</td><td>bigint</td></tr><tr><td>1</td><td>237</td></tr></table>	count	bigint	1	237	
count	bigint						
1	237						
3) KPI- Attrition Rate		<pre>22 select 23 round(((select count(attrition) from hrdata 24 where attrition = 'Yes')/sum(employee_count))*100,2) from hrdata;</pre> <p>Data Output Messages Notifications</p> <table><tr><td>round</td><td>numeric</td></tr><tr><td>1</td><td>16.12</td></tr></table>	round	numeric	1	16.12	
round	numeric						
1	16.12						

4) KPI-  
Active  
Employee



```
22 select
23 sum(employee_count)-(select count(attrition)
24 from hrdata where attrition ='Yes') as active_employee
25 from hrdata
```

Data Output Messages Notifications

	active_employee
1	1233

5) KPI-  
Average  
Age



```
21
22 select round(avg(age),2) from hrdata;
```

Data Output Messages Notifications

	round
1	36.92

6)  
Department  
wise  
Attrition

a) R&D Department:



b) Sales Department:



c) HR Department:



```
27 select department, count(attrition), round((cast(count(attrition) as numeric)
28 (select count(attrition) from hrdata
29 where attrition= 'Yes')) * 100, 2) as percent from hrdata
30 where attrition= 'Yes'
31 group by department
32 order by count(attrition) desc;
33
```

Data Output Messages Notifications

	department	count	percent
	character varying (50)	bigint	numeric
1	R&D	133	56.12
2	Sales	92	38.82
3	HR	12	5.06



7) No of Employee by Age Group



```
38 select age_band, gender, sum(employee_count) from hrdata
39 group by age_band, gender
40 order by age_band, gender desc
41
```

Data Output Messages Notifications			
age_band	gender	sum	
character varying (50)	character varying (50)	numeric	
1	25 - 34	Male	337
2	25 - 34	Female	217
3	35 - 44	Male	309
4	35 - 44	Female	196
5	45 - 54	Male	132
6	45 - 54	Female	113
7	Over 55	Male	44
8	Over 55	Female	25
9	Under 25	Male	60
10	Under 25	Female	37
Total rows: 10 of 10 Query complete 00:00:00.076			

8 ) Attrition by Gender for different Age group



```
59 select gender,age_band,count(attrition)as attrition from hrdata
60 where attrition = 'Yes'
61 group by age_band,gender
62 order by age_band,gender asc;
63
```

Data Output Messages Notifications			
gender	age_band	attrition	
character varying (50)	character varying (50)	bigint	
1	Female	25 - 34	43
2	Male	25 - 34	69
3	Female	35 - 44	14
4	Male	35 - 44	37
5	Female	45 - 54	9
6	Male	45 - 54	16
7	Female	Over 55	3
8	Male	Over 55	8
9	Female	Under 25	18
10	Male	Under 25	20
Total rows: 10 of 10 Query complete 00:00:00.115			

9)  
Education  
Field wise  
Attrition

### a.) Life Science:



### b.) Medical :



### c.)Marketing :



```
42 select education_field, count(attrition) as attrition_count from hrdata
43 where attrition='Yes'
44 group by education_field
45 order by count(attrition) desc;
46
47
```

Data Output: Messages Notifications

	education_field character varying (50)	attrition_count bigint
1	Life Sciences	89
2	Medical	63
3	Marketing	35
4	Technical Degree	32
5	Other	11
6	Human Resources	7

Total rows: 6 of 6 Query complete 00:00:00.081

#### d.) Technical Degree :



#### e.) Others :



```

42 select education_field, count(attrition) as attrition_count from hrdata
43 where attrition='Yes'
44 group by education_field
45 order by count(attrition) desc;
46
47

```

Data Output Messages Notifications

education_field	attrition_count
character varying (50)	bigint
1 Life Sciences	09
2 Medical	63
3 Marketing	35
4 Technical Degree	32
5 Other	11
6 Human Resources	7

Total rows: 6 of 6 Query complete 00:00:00.081

#### f.) Human Resources :

