

Power Bi & SQL query matching sheet :

Match Exactly

Does Not Match

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

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:

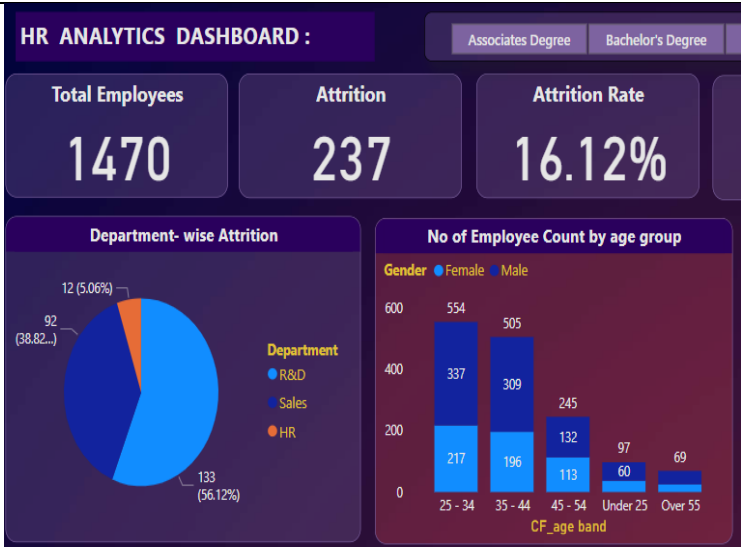


```
27 select department, count(attrition), round((cast(count(attrition) as numeric)
28 (select count(attrition) from hrdata
29 where attrition= 'Yes')) * 100, 2) as percent from hrdata
30 where attrition='Yes'
31 group by department
32 order by count(attrition) desc;
33
```

Data Output Messages Notifications

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

7) No of Employee by Age Group



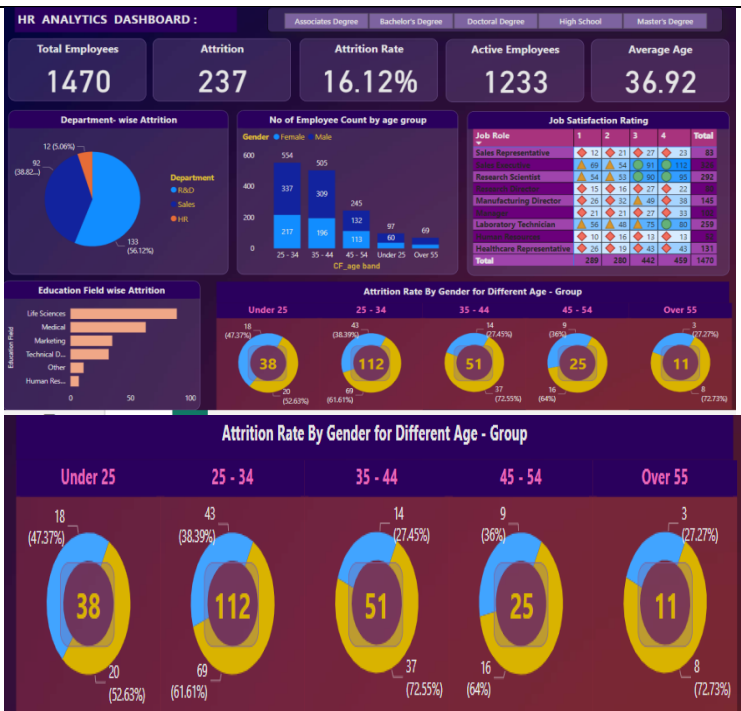
```
38 select age_band, gender, sum(employee_count) from hrdata
39 group by age_band, gender
40 order by age_band, gender desc
41
```

Data Output Messages Notifications

	age_band character varying (50)	gender character varying (50)	sum 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 character varying (50)	age_band character varying (50)	attrition 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 :



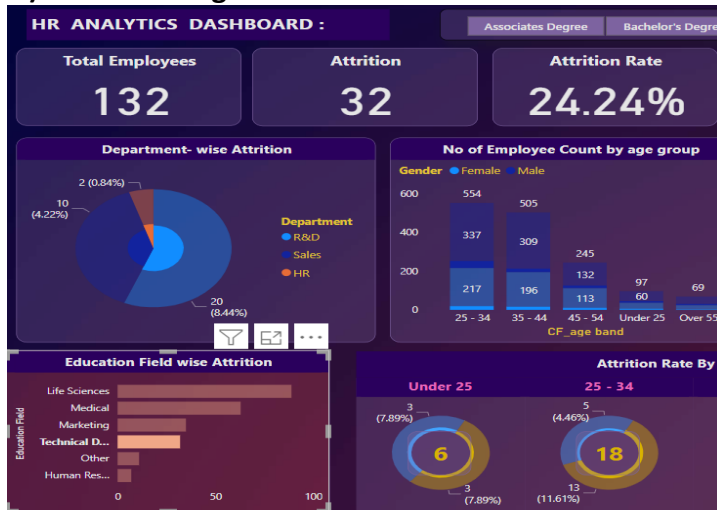
```
42 select education_field, count(attrition) as attrition_count from hrdata
43 where attrition='Yes'
44 group by education_field
45 order by count(attrition) desc;
```

Data Output Messages Notifications

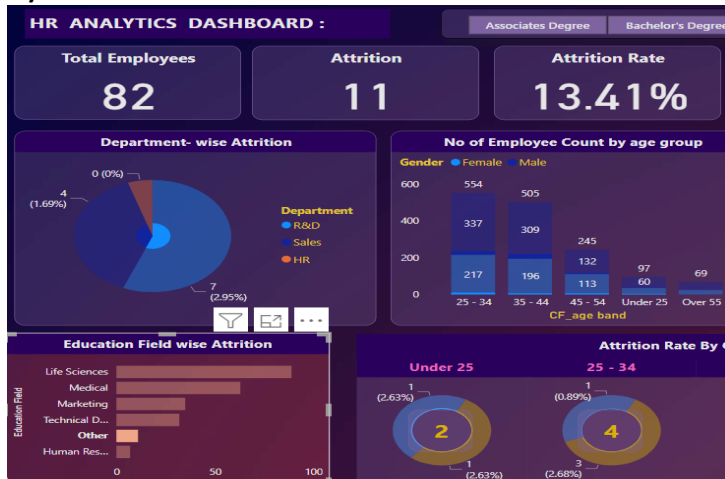
	education_field character varying (50)	attrition_count bigint
1	Life Sciences	89
2	Medical	63
3	Marketing	35
4	Technical Degree	32
5	Other	11
6	Human Resources	7

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

d.) Technical Degree :



e.) Others :



f.) Human Resources :



```

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;

```

Data Output Messages Notifications

	education_field	attrition_count
	character varying (50)	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