

# Task 4

## 1) Select

```
1 • SELECT * FROM practice3.train;
```

Output:-

	Employee ID	Age	Gender	Years at Company	Job Role	Monthly Income	Work-Life Balance	Job Satisfaction	Performance Rating	Number of Promotions	Overtime	Distance from Home
▶	8410	31	Male	19	Education	5390	Excellent	Medium	Average	2	No	22
	64756	59	Female	4	Media	5534	Poor	High	Low	3	No	21
	30257	24	Female	10	Healthcare	8159	Good	High	Low	0	No	11
	65791	36	Female	7	Education	3989	Good	High	High	1	No	27
	65026	56	Male	41	Education	4821	Fair	Very High	Average	0	Yes	71
	24368	38	Female	3	Technology	9977	Fair	High	Below Average	3	No	37
	64970	47	Male	23	Education	3681	Fair	High	High	1	Yes	75
	36999	48	Male	16	Finance	11223	Excellent	Very High	High	2	No	5
	32714	57	Male	44	Education	3773	Good	Medium	High	1	Yes	39
	15944	24	Female	1	Healthcare	7319	Poor	High	Average	1	Yes	57
	29972	30	Female	12	Education	5443	Good	High	Average	1	No	51
	6662	30	Female	6	Healthcare	8050	Poor	Medium	Low	2	No	26

## 2) Where

```
1 • SELECT * FROM practice3.train
2   where Age >= 30;
```

Output:-

	Employee ID	Age	Gender	Years at Company	Job Role	Monthly Income	Work-Life Balance	Job Satisfaction	Performance Rating	Number of Promotions	Overtime	Distance from Home
▶	8410	31	Male	19	Education	5390	Excellent	Medium	Average	2	No	22
	64756	59	Female	4	Media	5534	Poor	High	Low	3	No	21
	65791	36	Female	7	Education	3989	Good	High	High	1	No	27
	65026	56	Male	41	Education	4821	Fair	Very High	Average	0	Yes	71
	24368	38	Female	3	Technology	9977	Fair	High	Below Average	3	No	37
	64970	47	Male	23	Education	3681	Fair	High	High	1	Yes	75
	36999	48	Male	16	Finance	11223	Excellent	Very High	High	2	No	5
	32714	57	Male	44	Education	3773	Good	Medium	High	1	Yes	39
	29972	30	Female	12	Education	5443	Good	High	Average	1	No	51
	21896	47	Female	38	Technology	9039	Fair	Very High	High	1	No	78
	28098	31	Male	22	Healthcare	8090	Fair	Medium	High	4	Yes	30

## 3) Order By

```
1 • SELECT * FROM practice3.train
2   order by Age desc;
```

Output:-

	Employee ID	Age	Gender	Years at Company	Job Role	Monthly Income	Work-Life Balance	Job Satisfaction	Performance Rating	Number of Promotions	Overtime	Distance from Home
▶	49377	59	Female	6	Healthcare	7262	Good	High	High	1	No	5
	4633	59	Male	16	Education	3188	Poor	Low	High	0	No	10
	59495	59	Male	50	Media	5659	Good	Very High	Average	0	No	48
	18385	59	Female	17	Technology	6250	Poor	Low	Average	2	Yes	6
	19088	59	Female	17	Education	4659	Good	Medium	Low	1	Yes	48
	39082	59	Male	4	Education	3659	Fair	High	Low	2	No	90
	72370	59	Female	21	Media	5703	Good	High	Average	1	Yes	16
	29125	59	Male	27	Technology	10738	Excellent	High	High	2	Yes	10
	56180	59	Female	32	Media	5632	Fair	High	High	1	No	2
	68028	59	Female	11	Education	5836	Fair	High	Below Average	1	No	57
	27752	59	Male	9	Technology	9088	Poor	Very High	Below Average	1	No	14
	.....	..	..	..	.....	.....	.....	.....	.....	..	..	..

#### 4) Group By

```

1 • SELECT Gender,
2     AVG(Age)
3 FROM practice3.train
4 GROUP BY Gender
5 order by AVG(Age);

```

Output:-

	Gender	AVG(Age)
▶	Male	38.5306
	Female	38.6089

#### 5) Left Join

```

14 • SELECT train.emp_id, train.Age, train.Gender, train.job_satisfy
15 FROM train
16 LEFT JOIN test
17 ON train.emp_id = test.emp_id;

```

Output:-

	emp_id	Age	Gender	job_satisfy
▶	8410	31	Male	Medium
	64756	59	Female	High
	30257	24	Female	High
	65791	36	Female	High
	65026	56	Male	Very High
	24368	38	Female	High
	64970	47	Male	High
	36999	48	Male	Very High
	32714	57	Male	Medium
	15944	24	Female	High
	29972	30	Female	High
	9063	29	Female	Medium
	21896	47	Female	Very High

## 6) Subqueries

```

19 • SELECT emp_id, job_satisfy , Age
20 FROM train
21 WHERE Age > (
22     SELECT AVG(Age)
23     FROM train
24 );

```

Output:-

	emp_id	job_satisfy	Age
▶	64756	High	59
	65026	Very High	56
	64970	High	47
	36999	Very High	48
	32714	Medium	57
	21896	Very High	47
	22068	High	40
	17696	High	40
	17034	High	49
	17209	High	51
	45399	Very High	57
	58984	High	39
	14304	Medium	54

## 7) Aggregate Functions

```
26 • select Avg(monthly_income) from practice3.train;
```

Output:-

Avg(monthly_income)
7302.3980

## 8) View

```
29 • create view train_view as  
30 select emp_id,Gender,Age,job_satisfy  
31 from practice3.train;
```

Output:-

```
1 • SELECT * FROM practice3.train_view;
```

	emp_id	Gender	Age	job_satisfy
▶	8410	Male	31	Medium
	64756	Female	59	High
	30257	Female	24	High
	65791	Female	36	High
	65026	Male	56	Very High
	24368	Female	38	High
	64970	Male	47	High
	36999	Male	48	Very High
	32714	Male	57	Medium
	15944	Female	24	High
	29972	Female	30	High
	9063	Female	29	Medium
	24000	Female	47	Very High

Views
▶ train_view