

EXPECTED OUTPUTS OF ASSIGNMENT 1

◆ Problem 1: Salary Hike Based on Experience & Performance

emp_id	emp_name	experience	performance_rating	hike_percent
1	Karthik	9	A	20%
2	Prathik	4	B	10%
3	Vinay	10	B	15%
4	Vijay	3	C	0%
5	Anil	6	A	10%
6	Suresh	12	A	20%
7	Ramesh	2	C	0%
8	Mahesh	7	B	15%
9	Rajesh	5	B	15%
10	Naveen	6	C	0%
11	Deepak	11	A	20%
12	Arjun	3	C	0%
13	Kiran	8	A	20%
14	Rohit	4	B	10%
15	Pavan	5	B	15%
16	Srikanth	14	A	20%
17	Manoj	2	C	0%
18	Varun	6	B	15%
19	Ashok	9	A	20%
20	Sunil	4	B	10%
21	Nikhil	7	A	10%
22	Harish	1	C	0%
23	Vamsi	8	B	15%

emp_id emp_name experience performance_rating hike_percent

24 Chaitanya 13 A 20%

25 Lokesh 5 B 15%

◆ Problem 2: Bonus Calculation Based on Department & Performance

emp_id emp_name department performance_rating bonus_percent

1 Karthik Engineering A 18%

2 Prathik HR B 10%

3 Vinay Finance B 15%

4 Vijay Marketing C 10%

5 Anil Engineering A 18%

6 Suresh Finance A 20%

7 Ramesh HR C 10%

8 Mahesh Marketing B 10%

9 Rajesh Engineering B 12%

10 Naveen Finance C 5%

11 Deepak HR A 10%

12 Arjun Engineering C 3%

13 Kiran Marketing A 10%

14 Rohit Finance B 15%

15 Pavan HR B 10%

16 Srikanth Engineering A 18%

17 Manoj Finance C 5%

18 Varun Marketing B 10%

19 Ashok HR A 10%

20 Sunil Engineering B 12%

21 Nikhil Finance A 20%

emp_id emp_name department performance_rating bonus_percent

22	Harish	Marketing	C	10%
23	Vamsi	Engineering	B	12%
24	Chaitanya	HR	A	10%
25	Lokesh	Finance	B	15%

◆ Problem 3: Categorization by Salary & Performance

emp_id emp_name salary performance_rating category

1	Karthik	95000	A	High Performer
2	Prathik	55000	B	Mid Performer
3	Vinay	78000	B	Mid Performer
4	Vijay	48000	C	Low Performer
5	Anil	88000	A	High Performer
6	Suresh	92000	A	High Performer
7	Ramesh	46000	C	Low Performer
8	Mahesh	67000	B	Mid Performer
9	Rajesh	72000	B	Mid Performer
10	Naveen	61000	C	Low Performer
11	Deepak	83000	A	High Performer
12	Arjun	54000	C	Low Performer
13	Kiran	76000	A	High Performer
14	Rohit	68000	B	Mid Performer
15	Pavan	59000	B	Mid Performer
16	Srikanth	102000	A	High Performer
17	Manoj	47000	C	Low Performer
18	Varun	52000	B	Mid Performer
19	Ashok	74000	A	High Performer

emp_id	emp_name	salary	performance_rating	category
20	Sunil	66000	B	Mid Performer
21	Nikhil	86000	A	High Performer
22	Harish	45000	C	Low Performer
23	Vamsi	79000	B	Mid Performer
24	Chaitanya	91000	A	High Performer
25	Lokesh	58000	B	Mid Performer

◆ Problem 4: Risk Assessment

emp_id	emp_name	department	experience	risk_level
1	Karthik	Engineering	9	Low Risk
2	Prathik	HR	4	High Risk
3	Vinay	Finance	10	Low Risk
4	Vijay	Marketing	3	Medium Risk
5	Anil	Engineering	6	Medium Risk
6	Suresh	Finance	12	Low Risk
7	Ramesh	HR	2	High Risk
8	Mahesh	Marketing	7	Medium Risk
9	Rajesh	Engineering	5	Medium Risk
10	Naveen	Finance	6	Medium Risk
11	Deepak	HR	11	Low Risk
12	Arjun	Engineering	3	Medium Risk
13	Kiran	Marketing	8	Medium Risk
14	Rohit	Finance	4	Medium Risk
15	Pavan	HR	5	Medium Risk
16	Srikanth	Engineering	14	Low Risk
17	Manoj	Finance	2	Medium Risk

emp_id	emp_name	department	experience	risk_level
18	Varun	Marketing	6	Medium Risk
19	Ashok	HR	9	Low Risk
20	Sunil	Engineering	4	Medium Risk
21	Nikhil	Finance	7	Medium Risk
22	Harish	Marketing	1	Medium Risk
23	Vamsi	Engineering	8	Medium Risk
24	Chaitanya	HR	13	Low Risk
25	Lokesh	Finance	5	Medium Risk

NESTED CASE — EXPECTED OUTPUTS

Nested Problem 1: Salary Hike (Performance + Salary + Experience)

emp_id	emp_name	hike_percent
1	Karthik	25%
2	Prathik	10%
3	Vinay	12%
4	Vijay	0%
5	Anil	25%
6	Suresh	25%
7	Ramesh	0%
8	Mahesh	12%
9	Rajesh	10%
10	Naveen	0%
11	Deepak	25%
12	Arjun	0%
13	Kiran	15%

emp_id emp_name hike_percent

14	Rohit	10%
15	Pavan	10%
16	Srikanth	25%
17	Manoj	0%
18	Varun	12%
19	Ashok	15%
20	Sunil	10%
21	Nikhil	25%
22	Harish	0%
23	Vamsi	12%
24	Chaitanya	25%
25	Lokesh	10%

◆ Nested Problem 2: Bonus (Department + Performance + Experience)

emp_id emp_name bonus_percent

1	Karthik	8%
2	Prathik	15%
3	Vinay	20%
4	Vijay	8%
5	Anil	8%
6	Suresh	25%
7	Ramesh	10%
8	Mahesh	8%
9	Rajesh	8%
10	Naveen	20%
11	Deepak	15%

emp_id emp_name bonus_percent

12	Arjun	8%
13	Kiran	8%
14	Rohit	20%
15	Pavan	15%
16	Srikanth	8%
17	Manoj	20%
18	Varun	8%
19	Ashok	15%
20	Sunil	8%
21	Nikhil	20%
22	Harish	8%
23	Vamsi	8%
24	Chaitanya	15%
25	Lokesh	20%

◆ **Nested Problem 3: Employee Categorization**

emp_id emp_name category

1	Karthik	Top Performer
2	Prathik	Average Performer
3	Vinay	Mid Performer
4	Vijay	Low Performer
5	Anil	Mid Performer
6	Suresh	Top Performer
7	Ramesh	Low Performer
8	Mahesh	Average Performer
9	Rajesh	Mid Performer

emp_id emp_name category

10	Naveen	Average Performer
11	Deepak	Top Performer
12	Arjun	Average Performer
13	Kiran	Mid Performer
14	Rohit	Average Performer
15	Pavan	Average Performer
16	Srikanth	Top Performer
17	Manoj	Low Performer
18	Varun	Average Performer
19	Ashok	Top Performer
20	Sunil	Average Performer
21	Nikhil	Mid Performer
22	Harish	Low Performer
23	Vamsi	Mid Performer
24	Chaitanya	Top Performer
25	Lokesh	Average Performer

◆ Nested Problem 4: Tax Bracket

emp_id emp_name tax_rate

1	Karthik	30%
2	Prathik	15%
3	Vinay	25%
4	Vijay	15%
5	Anil	25%
6	Suresh	35%
7	Ramesh	15%

emp_id emp_name tax_rate

8	Mahesh	25%
9	Rajesh	20%
10	Naveen	25%
11	Deepak	25%
12	Arjun	15%
13	Kiran	25%
14	Rohit	20%
15	Pavan	20%
16	Srikanth	35%
17	Manoj	15%
18	Varun	25%
19	Ashok	25%
20	Sunil	20%
21	Nikhil	25%
22	Harish	15%
23	Vamsi	25%
24	Chaitanya	35%
25	Lokesh	20%

◆ Nested Problem 5: Promotion Eligibility

emp_id emp_name promotion_status

1	Karthik	Eligible for Senior Role
2	Prathik	Not Eligible
3	Vinay	Eligible for Consideration
4	Vijay	Not Eligible
5	Anil	Eligible for Junior Role

emp_id emp_name promotion_status

6	Suresh	Eligible for Senior Role
7	Ramesh	Not Eligible
8	Mahesh	Eligible for Consideration
9	Rajesh	Not Eligible
10	Naveen	Not Eligible
11	Deepak	Eligible for Senior Role
12	Arjun	Not Eligible
13	Kiran	Eligible for Senior Role
14	Rohit	Not Eligible
15	Pavan	Not Eligible
16	Srikanth	Eligible for Senior Role
17	Manoj	Not Eligible
18	Varun	Eligible for Consideration
19	Ashok	Eligible for Senior Role
20	Sunil	Not Eligible
21	Nikhil	Eligible for Junior Role
22	Harish	Not Eligible
23	Vamsi	Eligible for Consideration
24	Chaitanya	Eligible for Senior Role
25	Lokesh	Not Eligible