

100 %

Results

Messages

	empno	ename	job	mgr	hiredate	sal	comm	deptno
1	7369	smith	clerk	7902	17-dec-80	800	NULL	20
2	7499	allen	salesman	7698	20-feb-81	1600	300	30
3	7521	ward	salesman	7698	22-feb-81	1250	500	30
4	7566	jones	manager	7839	02-apr-81	2975	NULL	20
5	7654	martin	salesman	7698	28-sep-81	1250	1400	30
6	7698	BLAKE	MANAGER	7839	01-MAY-81	2850	NULL	30
7	7782	CLARK	MANAGER	7839	09-JUN-81	2450	NULL	10
8	7788	SCOTT	ANALYST	7566	19-APR-87	3000	NULL	20
9	7839	KING	PRESIDENT	NULL	17-NOV-81	5000	NULL	10
10	7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
11	7876	ADAMS	CLERK	7788	23-MAY-87	1100	NULL	20
12	7900	JAMES	CLERK	7698	03-DEC-81	950	NULL	30
13	7902	FORD	ANALYST	7566	03-DEC-81	3000	NULL	20
14	7934	MILLER	CLERK	7782	23-JAN-82	1300	NULL	10

Fig A1-EMP Table

Results		Messages	
	deptno	dname	loc
1	10	ACCOUNTING	NEW YORK
2	20	RESEARCH	DALLAS
3	30	SALES	CHICAGO
4	40	OPERATIONS	BOSTON

Fig A1-DEPT Table

```
35 -- tasks
36 -- 1. List all employees whose name begins with 'A'
37 select ename from EMP where ename like 'A%'
38
39 -- 2. select all those employees who don't have a manager
40 select ename from EMP where mgr is null
41
42 --3. list employee name, number and salary for those employees who earn in the range 1200 to 1400
43 select ename,empno,sal from EMP where sal between 1200 and 1400
44
```

100 %

Results Messages

	ename
1	allen
2	ADAMS

Fig A1-1: Showing employees whose names begin with A

```
37 select ename from EMP where ename like A%
38
39 -- 2. select all those employees who don't have a manager
40 select ename from EMP where mgr is null
41
42 --3. list employee name, number and salary for those employees who earn in the range 1200 to 1400
43 select ename,empno,sal from EMP where sal between 1200 and 1400
44
```

100 %

Results Messages

	ename
1	KING

Fig A1-2: Showing employees who don't have manager

```
41
42 --3. list employee name, number and salary for those employees who earn in the range 1200 to 1400
43 select ename,empno,sal from EMP where sal between 1200 and 1400
44
45
46
47
```

100 %

Results Messages

	ename	empno	sal
1	ward	7521	1250
2	martin	7654	1250
3	MILLER	7934	1300

Fig A1-3: Showing employee details who earn in the range 1200 to 1400

```

46 --
47 select ename, sal, sal+sal*0.1 as 'updated salary' from EMP where EMP.deptno=(select deptno from DEPT where dname like 'RESEARCH')
48
49
50
51

```

	ename	sal	updated salary
1	smith	800	880.0
2	jones	2975	3272.5
3	SCOTT	3000	3300.0
4	ADAMS	1100	1210.0
5	FORD	3000	3300.0

Fig A1-4.1: Selecting the salary of research group and updating the salary by 10%

```

30 -- showing values
31 select * from EMP
32 select * from DEPT
33

```

	empno	ename	job	mgr	hiredate	sal	comm	deptno
1	7369	smith	clerk	7902	17-dec-80	880	NULL	20
2	7499	allen	salesman	7698	20-feb-81	1600	300	30
3	7521	ward	salesman	7698	22-feb-81	1250	500	30
4	7566	jones	manager	7839	02-apr-81	3272	NULL	20
5	7654	martin	salesman	7698	28-sep-81	1250	1400	30
6	7698	BLAKE	MANAGER	7839	01-MAY-81	2850	NULL	30
7	7782	CLARK	MANAGER	7839	09-JUN-81	2450	NULL	10
8	7788	SCOTT	ANALYST	7566	19-APR-87	3300	NULL	20
9	7839	KING	PRESIDENT	NULL	17-NOV-81	5000	NULL	10
10	7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
11	7876	ADAMS	CLERK	7788	23-MAY-87	1210	NULL	20
12	7900	JAMES	CLERK	7698	03-DEC-81	950	NULL	30
13	7902	FORD	ANALYST	7566	03-DEC-81	3300	NULL	20
14	7934	MILLER	CLERK	7782	23-JAN-82	1300	NULL	10

Fig A1-4: after updating salary of Research group..i.e., deptno 20(refer EMP table img for salary before updating)

```

49 -- 5. Find the number of CLERKS employed. Give it a descriptive heading.
50 select count(job) as 'no of clerks employed' from EMP where job like 'clerk'

```

no of clerks employed	
1	4

Fig A1-5: No of clerks employed

```

52 -- 6. Find the average salary for each job type and the number of people employed in each job.
53 select job, avg(sal) as 'avg salary', count(ename) as 'no of employees' from EMP group by job

```

	job	avg salary	no of employees
1	ANALYST	3300	2
2	CLERK	1085	4
3	manager	2857	3
4	PRESIDENT	5000	1
5	SALESMAN	1400	4

Fig A1-6: Finding the avg salary for each job type and the no of people employed in each job

```

54
55 -- 7. List the employees with the lowest and highest salary.
56 select e.ename, e.sal
57 from emp e
58 where e.sal = (SELECT MAX(e2.sal) from emp e2) OR e.sal = (select MIN(e2.sal) from emp e2);
59
60
61

```

	ename	sal
1	smith	880
2	KING	5000

Fig A1-7: Listing the employees with lowest and highest salary

```

60 -- 8. List full details of departments that don't have any employees.
61 select * from DEPT d where d.deptno not in (select deptno from EMP)
62
63

```

100 %

Results Messages

	deptno	dname	loc
1	40	OPERATIONS	BOSTON

A1-8: Listing details of departments that don't have any employees

```

63 -- 9. Get the names and salaries of all the analysts earning more than 1200 who are based in department 20. Sort the answer by ascending order o
64 select ename,sal,job from EMP where job='analyst' and sal>1200 and deptno=20 order by ename
65

```

100 %

Results Messages

	ename	sal	job
1	FORD	3300	ANALYST
2	SCOTT	3300	ANALYST

Fig A1-9: Showing names and salaries of all analyst earning more than 1200 of department 20 and sort the result

```

65
66 -- 10. For each department, list its name and number together with the total salary paid to employees in that department.
67 select d.dname, d.deptno, sum(e.sal) as 'total salary' from DEPT d,EMP e where d.deptno=e.deptno group by d.deptno,d.dname

```

100 %

Results Messages

	dname	deptno	total salary
1	ACCOUNTING	10	8750
2	RESEARCH	20	11962
3	SALES	30	9400

Fig A1-10: department wise salary given to employees

```

69 -- 11. Find out salary of both MILLER and SMITH.
70 select ename, sal from EMP where ename='miller' or ename='smith'

```

	ename	sal
1	smith	880
2	MILLER	1300

Fig A1-11: Showing the salary of miller and smith

```

71
72 -- 12. Find out the names of the employees whose name begin with 'A' or 'M'.
73 select ename from EMP where ename like 'a%' or ename like 'm%'

```

	ename
1	allen
2	martin
3	ADAMS
4	MILLER

Fig A1-12: Finding employees whose name begin with A or M

```

75 -- 13. Compute yearly salary of SMITH.
76 -- question not clear ,if sal given is monthly it can be computed as salary*12
77 select ename, sal*12 as 'salary' from emp where ename='smith'
78

```

	ename	salary
1	smith	10560

A1-13: Computing yearly salary of smith

```

78
79 -- 14. List the name and salary for all employees whose salary is not in the range of 1500 and 2850.
80 select ename,sal from EMP where sal not between 1500 and 2850

```

Results		Messages
	ename	sal
1	smith	880
2	ward	1250
3	jones	3272
4	martin	1250
5	SCOTT	3300
6	KING	5000
7	ADAMS	1210
8	JAMES	950
9	FORD	3300
10	MILLER	1300

Fig A1-14: Listing the name and salary of all employees whose salary is not in range of 1500 and 2850

----- Thank You -----