

```

13
14 use ZensarDB
15
16 create table empAssignment(eid int primary key,ename varchar(20), desig varchar(30), salary int)
17
18 insert into empAssignment
19 values(501,'Adarsh','Analyst',40000),
20 (504,'Babitha','Manager',80000),
21 (509,'Siddhart','Developer',75000)
22
23 Select * from empAssignment
24
25 create or alter proc payslip(@empid int)
26 as

```

100 %

Results Messages

	eid	ename	desig	salary
1	501	Adarsh	Analyst	40000
2	504	Babitha	Manager	80000
3	509	Siddhart	Developer	75000

```

23 Select * from empAssignment
24
25 create or alter proc payslip(@empid int)
26 as
27 begin
28 declare @HRA float, @DA float, @PF float, @IT float, @deductions float, @GrossSal float, @netSalary float
29 declare @empname varchar(20)
30 set @HRA=0.1*(select salary from empAssignment where eid=@empid)
31 set @DA=0.2*(select salary from empAssignment where eid=@empid)
32 set @PF=0.08*(select salary from empAssignment where eid=@empid)
33 set @IT=0.05*(select salary from empAssignment where eid=@empid)
34 set @deductions=@PF+@IT
35 set @GrossSal= (select salary from empAssignment where eid=@empid)+@HRA+@DA+@deductions
36 set @netSalary=@GrossSal-@deductions
37 set @empname=(select ename from empAssignment where eid=@empid)
38 print 'Payslip of employee '+@empname+' is: '
39 print 'HRA = '+cast(@HRA as varchar)+' , DA = '+cast(@DA as varchar)+' , PF = '+cast(@PF as varchar)+' , IT = '+cast(@IT as var
40 end
41
42 exec payslip 504

```

100 %

Messages

Payslip of employee Babitha is:
HRA = 8000, DA = 16000, PF = 6400, IT = 4000, Deductions = 10400, gross salary = 114400, Net salary = 104000

Completion time: 2022-02-21T15:48:13.8305011+05:30

```

46  /*
47  2. Write a T-SQL Program to Display complete result of a given student.
48  (Note: Consider 10th standard result sheet and Student table structure as (sno,sname,maths,phy,comp)
49  */
50  create table studentAssignment(sno int primary key, sname varchar(20),maths int, phy int, comp int)
51
52  insert into studentAssignment
53  values(1,'Ramya',84,67,89),
54  (2,'Samatha',53,34,65),
55  (3,'Asra',62,73,86)
56
57  select * from studentAssignment
58
59  create or alter function Display(@sRNo int) -- need to use proc instead of procedure
60  --returns int
61  returns varchar(20)
62  as

```

100 %

Results Messages

	sno	sname	maths	phy	comp
1	1	Ramya	84	67	89
2	2	Samatha	53	34	65
3	3	Asra	62	73	86

SQLQuery1.sql - A...(IND\SM59412 (52))*

```

56
57  select * from studentAssignment
58
59  create or alter function Display(@sRNo int) -- need to use proc instead of procedure
60  --returns int
61  returns varchar(20)
62  as
63  begin
64  declare @m int,@p int,@c int
65  --declare @@n varchar(20)
66  set @m=(select maths from studentAssignment where sno=@sRNo)
67  set @p=(select phy from studentAssignment where sno=@sRNo)
68  set @c=(select comp from studentAssignment where sno=@sRNo)
69  -- set @@n=(select sname from studentAssignment where sno=@sRNo)
70  -- print 'result of '+@@n+' is: ' -- throwing error
71  return (select sname from studentAssignment where sno=@sRNo)+' '+cast((@m+@p+@c) as varchar)
72  end
73
74  declare @n varchar(20)

```

100 %

Messages

Ramya 240

Completion time: 2022-02-21T16:19:22.6435684+05:30

```

79  /*3.   Write a T-SQL Program to find the factorial of a given number.*/
80
81  create or alter procedure factorial(@num int)
82  as
83  begin
84      declare @facto int, @n int
85      set @n=1
86      set @facto=1
87      while @n<=@num
88      begin
89          set @facto =@facto*@n
90          set @n=@n+1
91      end
92      print 'Factorial of '+cast(@num as varchar) + ' is: '
93      print @facto
94  end
95
96  execute factorial 4
97

```

100 %

Messages

Factorial of 4 is:
24

Completion time: 2022-02-21T17:00:01.7120159+05:30

```

98
99  /*4. Create a stored procedure to generate multiplication tables up to a given number.*/
100
101  create or alter proc multiplication(@n int)
102  as
103  begin
104      declare @i int
105      set @i=1
106      while @i<=10
107      begin
108          print cast(@n as varchar)+' * '+cast(@i as varchar)+' = '+cast((@n*@i) as varchar)
109          set @i=@i+1
110      end
111  end
112
113  exec multiplication 6

```

100 %

Messages

6 * 4 = 24
6 * 5 = 30
6 * 6 = 36
6 * 7 = 42
6 * 8 = 48
6 * 9 = 54
6 * 10 = 60

Completion time: 2022-02-21T17:10:19.5511038+05:30

```

116  /*
117  5. Create a user defined function calculate Bonus for all employees of a given job using following conditions
118  a. For Deptno10 employees 15% of sal as bonus.
119  b. For Deptno20 employees 20% of sal as bonus
120  c. For Others employees 5% of sal as bonus
121  */
122
123  select * from EMP

```

100 %

	empno	ename	job	mgr	hiredate	sal	comm	deptno
1	7369	smith	clerk	7902	17-dec-80	1212	NULL	20
2	7499	allen	salesman	7698	20-feb-81	1797	300	30
3	7521	ward	salesman	7698	22-feb-81	1404	500	30
4	7566	jones	manager	7839	02-apr-81	3538	NULL	20
5	7654	martin	salesman	7698	28-sep-81	1404	1400	30
6	7698	BLAKE	MANAGER	7839	01-MAY-81	3141	NULL	30
7	7782	CLARK	MANAGER	7839	09-JUN-81	2752	NULL	10
8	7788	SCOTT	ANALYST	7566	19-APR-87	3569	NULL	20
9	7839	KING	PRESIDENT	NULL	17-NOV-81	5408	NULL	10
10	7844	TURNER	SALESMAN	7698	08-SEP-81	1685	0	30
11	7876	ADAMS	CLERK	7788	23-MAY-87	1358	NULL	20
12	7900	JAMES	CLERK	7698	03-DEC-81	1292	NULL	30
13	7902	FORD	ANALYST	7566	03-DEC-81	3569	NULL	20
14	7934	MILLER	CLERK	7782	23-JAN-82	1685	NULL	10

```

125  -- inline - table valued functions
126  create or alter function calculateBonus(@j varchar(15))
127  returns table
128  as
129  return(select ename,job,sal,deptno from emp where job=@j)
130  go
131  update emp set sal=sal+(sal*0.15) where deptno=10
132  update emp set sal=sal+(sal*0.2) where deptno=20
133  update emp set sal=sal+(sal*0.05) where deptno<>10 and deptno<>20
134
135
136  select * from calculateBonus('clerk')
137  select * from calculateBonus('president')
138
139

```

```

125  -- inline - table valued functions
126  create or alter function calculateBonus(@j varchar(15))
127  returns table
128  as
129  return(select ename,job,sal,deptno from emp where job=@j)
130  go
131  update emp set sal=sal+(sal*0.15) where deptno=10
132  update emp set sal=sal+(sal*0.2) where deptno=20
133  update emp set sal=sal+(sal*0.05) where deptno<>10 and deptno<>20
134
135
136  select * from calculateBonus('clerk')
137  select * from calculateBonus('president')
138
139

```

SQLQuery1.sql - A...(IND\SM59412 (52))*

```
133 update emp set sal=sal+(sal*0.05) where deptno<>10 and deptno<>20
134
135
136 select * from calculateBonus('clerk')
137 select * from calculateBonus('president')
138
139 select * from emp
140
141
```

100 %

Results

Messages

	empno	ename	job	mgr	hiredate	sal	comm	deptno
1	7369	smith	clerk	7902	17-dec-80	1454	NULL	20
2	7499	allen	salesman	7698	20-feb-81	1886	300	30
3	7521	ward	salesman	7698	22-feb-81	1474	500	30
4	7566	jones	manager	7839	02-apr-81	4245	NULL	20
5	7654	martin	salesman	7698	28-sep-81	1474	1400	30
6	7698	BLAKE	MANAGER	7839	01-MAY-81	3298	NULL	30
7	7782	CLARK	MANAGER	7839	09-JUN-81	3164	NULL	10
8	7788	SCOTT	ANALYST	7566	19-APR-87	4282	NULL	20
9	7839	KING	PRESID...	NU...	17-NOV-81	6219	NULL	10
10	7844	TUR...	SALESM...	7698	08-SEP-81	1769	0	30
11	7876	ADA...	CLERK	7788	23-MAY-87	1629	NULL	20
12	7900	JAMES	CLERK	7698	03-DEC-81	1356	NULL	30
13	7902	FORD	ANALYST	7566	03-DEC-81	4282	NULL	20
14	7934	MILL...	CLERK	7782	23-JAN-82	1937	NULL	10

```

SQLQuery1.sql - A...(IND\SM59412 (52))* X
133 update emp set sal=sal+(sal*0.05) where deptno<>10 and deptno<>20
134
135
136 select * from calculateBonus('clerk')
137 select * from calculateBonus('president')
138
139 select * from emp
140
141

```

100 %

Results Messages

	empno	ename	job	mgr	hiredate	sal	comm	deptno
1	7369	smith	clerk	7902	17-dec-80	1454	NULL	20
2	7499	allen	salesman	7698	20-feb-81	1886	300	30
3	7521	ward	salesman	7698	22-feb-81	1474	500	30
4	7566	jones	manager	7839	02-apr-81	4245	NULL	20
5	7654	martin	salesman	7698	28-sep-81	1474	1400	30
6	7698	BLAKE	MANAGER	7839	01-MAY-81	3298	NULL	30
7	7782	CLARK	MANAGER	7839	09-JUN-81	3164	NULL	10
8	7788	SCOTT	ANALYST	7566	19-APR-87	4282	NULL	20
9	7839	KING	PRESID...	NU...	17-NOV-81	6219	NULL	10
10	7844	TUR...	SALESM...	7698	08-SEP-81	1769	0	30
11	7876	ADA...	CLERK	7788	23-MAY-87	1629	NULL	20
12	7900	JAMES	CLERK	7698	03-DEC-81	1356	NULL	30
13	7902	FORD	ANALYST	7566	03-DEC-81	4282	NULL	20
14	7934	MILL...	CLERK	7782	23-JAN-82	1937	NULL	10

```

142 /*
143 6. Create a trigger to restrict data manipulation on EMP table during General holidays. Display the error message like "Du
144 Note: Create holiday table as (holiday_date,Holiday_name) store at least 4 holiday details
145 */
146
147 create table holiday(holiday_date date,holiday_name varchar(30))
148
149 insert into holiday
150 values('2022-08-15','Independence_day'),
151 ('2022-12-25','Christmas'),
152 ('2022-01-01','New Year'),
153 ('2022-10-05','Dushera')
154
155 select * from holiday

```

100 %

Results Messages

	holiday_date	holiday_name
1	2022-08-15	Independence_day
2	2022-12-25	Christmas
3	2022-01-01	New Year
4	2022-10-05	Dushera

