```
Abstract Data Type: emp type() and cal sal():-
SQL Query:
create type emp as object(
       eid number,
  ename varchar2(30),
  emp addr varchar2(10),
  doj date,
  salary number,
  MEMBER Function cal sal Return number
)not final;
create type body emp as
       member function cal sal return number is
       begin
              return salary;
       end;
end;
create table employee of emp;
insert into employee values(emp(101,'Onkar','Talere','12-May-2020',200000));
insert into employee values(emp(102,'Adi','Tale','12-May-2010',22300));
insert into employee values(emp(103,'Om','kale','12-May-2022',2034200));
insert into employee values(emp(104,'Raju','Goa','12-May-2012',2000));
insert into employee values(emp(105, 'Pandu', 'Pune', '12-May-2000', 202300));
```

## select \* from employee;

EID	ENAME	EMP_ADDR	DOJ	SALARY
101	Onkar	Talere	12-MAY-20	200000
102	Adi	Tale	12-MAY-10	22300
103	Om	kale	12-MAY-22	2034200
104	Raju	Goa	12-MAY-12	2000
105	Pandu	Pune	12-MAY-00	202300

select e.cal sal() from employee e;

E.CAL_SAL()
200000
22300
2034200
2000
202300

select e.ename, e.cal sal() from employee e;

ENAME	E.CAL_SAL()
Onkar	200000
Adi	22300
Om	2034200
Raju	2000
Pandu	202300

```
create type eng under emp
(
    eng_type varchar2(10),
    Member function emp_type return varchar2
);

create type body eng as
    Member function emp_type return varchar2 is
    Begin
        return 'Engineer';
    end;

end;

create table engineer of eng;

insert into engineer values(1,'Onkar','Goa','22-Dec-2008',30000,'Sr');
insert into engineer values(2,'Swapnali','Kolhapur','2-Dec-2008',30000,'Sr');
insert into engineer values(3,'Aditya','Goa','22-May-2008',30000,'Sr');
insert into engineer values(4,'Pandu','Dubai','22-Dec-2008',30000,'Sr');
insert into engineer values(5,'Sneha','Goa','22-Jun-2008',30000,'Sr');
```

## select \* from engineer;

EID	ENAME	EMP_ADDR	DOJ	SALARY	ENG_TYPE
1	Onkar	Goa	22-DEC-08	30000	Sr
2	Swapnali	Kolhapur	02-DEC-08	30000	Sr
3	Aditya	Goa	22-MAY-08	30000	Sr
4	Pandu	Dubai	22-DEC-08	30000	Sr
5	Sneha	Goa	22-JUN-08	30000	Sr

select e.cal\_sal() from engineer e;

E.CAL_SAL()
30000
30000
30000
30000
30000

select e.ename , e.cal\_sal() from engineer e;

ENAME	E.CAL_SAL()
Onkar	30000
Swapnali	30000
Aditya	30000
Pandu	30000
Sneha	30000

select e.emp\_type() from engineer e;

E.EMP_TYPE()
Engineer

select e.ename , e.emp\_type() from engineer e;

ENAME	E.EMP_TYPE()
Onkar	Engineer
Swapnali	Engineer
Aditya	Engineer
Pandu	Engineer
Sneha	Engineer

select e.ename , e.emp\_type() , e.cal\_sal() from engineer e;

ENAME	E.EMP_TYPE()	E.CAL_SAL()
Onkar	Engineer	30000
Swapnali	Engineer	30000
Aditya	Engineer	30000
Pandu	Engineer	30000
Sneha	Engineer	30000