

<u>CUSTOMER</u>	ALTER TABLE sales_man add primary key(salesman_no); e) ALTER TABLE sales_order add constraint sales_order_del_type_check CHECK (del_type = 'P' OR del_type = 'F'); ALTER TABLE sales_order ADD CONSTRAINT FK_salesman_no FOREIGN KEY (salesman_no) REFERENCES sales_man(salesman_no);	<u>PRODUCT</u> create table product(Product_code int primary key, Product_Name varchar(20),Category varchar(20), Quantity int,Price numeric); insert into product values(1,'colgate','paste',10,100); select * from product; a) select * from product order by product_name desc; b) select product_code,product_name from product where price between 20 and 50; c) select product_name,price from product where category in ('bath soap','paste','washing powder'); d) select * from product where quantity>500; e) select product_name from product where product_name like 't%'; f) select product_name from product where category !='paste'; g) insert into product values(10,'radhas','washing powder',600,2000); select product_name from product where product_name like '_a%' and category='washing powder';	and salary>10000; d) select e.emp_name from employee1 e, works w, company c where e.emp_name =w.emp_name and e.city = c.city and w.company_name = c.company_name; e) select emp_name from works where company_name!='wipro'; f) select company_name from works group by company_name having count (distinct emp_name) >= all (select count (distinct emp_name) from works group by company_name);
_create table customer(cust_no varchar(5),cust_name varchar(15),age numeric,phone varchar(10)); a) insert into customer values(1,'A',23,94567); select *from customer; b) alter table customer add d_o_b date; c) create table cust_phone as select cust_name,phone from customer; select *from cust_phone; d) alter table customer drop age; select *from customer; e) ALTER TABLE customer ALTER COLUMN cust_name TYPE varchar(25); select *from customer; f) TRUNCATE customer; select *from customer; g) ALTER TABLE customer RENAME TO cust; select *from cust; h) drop table cust;	<u>HOSPITAL</u> create table hospital(doctor_id text,doctor_name varchar(10),department varchar(25),qualification varchar(25),experience text); a) insert into hospital values('D001','miya','cardiologist','mbbs',5); b) select * from hospital; c) select * from hospital where qualification='md'; d) select * from hospital where experience>'5' and qualification!='md'; e) select * from hospital where department='skin'; f) update hospital set experience=5 where doctor_id='D003'; select * from hospital; g) delete from hospital where doctor_id='D005'; select * from hospital;	<u>EMPLOYEE DATABASE</u> create table works(emp_name varchar(10),company_name varchar(10),salary int); create table company(company_name varchar(10),city varchar(10)); create table manages(emp_name varchar(10),manager_name varchar(10)); insert into employee1 values('ammu','chennai'); select *from employee1; insert into works values('ammu','infosys','11000'); select *from works; insert into company values('infosys','chennai'); select *from company; a) select emp_name from works where company_name='infosys'; b) select e.emp_name,e.city from employee1 e join works w on e.emp_name=w.emp_name where company_name='wipro'; c) select e.emp_name,e.city from employee1 e join works w on e.emp_name=w.emp_name where company_name='infosys'	<u>AREA OF CIRCLE 3-7</u> do \ 'declare \ r integer; \ area numeric(5,2); \ pi constant float :=3.14; \begin \ create table area(r integer ,area numeric(5,2)); \ r:=3; \ while r<=7 \ loop \area:=pi*power(r,2); \ insert into area values(r,area); \ r:=r+1; \ end loop; \ end'; select * from area;
<u>SALESMAN AND SALES ORDER</u> create table sales_man(salesman_no int primary key,s_name varchar(20) not null,place text,phone int unique); create table sales_order(order_no int primary key,order_date date not null,salesman_no int, foreign key(salesman_no) references sales_man(salesman_no) on delete cascade,del_type char(1) check(del_type='P' or del_type='F'),order_status varchar(10) check(order_status='inprocess' or order_status='fullfilled' or order_status='backorder' or order_status='cancelled')); a) insert into sales_man values(1,'A','abc',98456); select * from sales_man; insert into sales_order values(1,'01-01-2000',1,'P','inprocess'); select * from sales_order; b) ALTER TABLE sales_man DROP CONSTRAINT sales_man_pkey cascade; c) ALTER TABLE sales_man DROP CONSTRAINT sales_order_fkey; ALTER TABLE sales_order DROP CONSTRAINT sales_order_del_type_check; d)	<u>EMPLOYEE</u> create table emp(emp_id int,e_name char(10),salary int,department char(10),age int); insert into emp values(001,'ram',360000,'hr',22); select*from emp; a) select count(emp_id) from emp; b) select e_name,age from emp where age=(select max(age)from emp); c) select avg(age)from emp group by department; d) select department,avg(salary)from emp group by department; e) select min(salary) from emp; f) select count(e_name)from emp where department='purchase'; g) select max(salary) from emp where department='sales'; h) select max(salary)-min(salary) difference from emp;		<u>FUNCTION PRIME OR NOT</u> create function primecheck(n integer) returns varchar(10) as' declare \ i integer; \ flag integer:=0; \ begin \ for i in 2..n/2 \ loop \ if mod(n,i)=0 \ then \ flag:=1; \ exit; \ end if; \end loop; \ if flag=0 \then \ return "prime"; \else \ return "not prime"; \ end if; \ end;' \ language plpgsql; select primecheck(20);
			<u>FIBNOCCI NUMBER UPTO LIMIT</u> CREATE OR REPLACE FUNCTION fibonacci1(num integer) RETURNS SETOF numeric AS \$\$ DECLARE \ fib1 numeric := 0; \ fib2 numeric := 1; \ BEGIN \ IF (num <= 0) \ THEN RETURN; \ END IF; \ RETURN NEXT fib1; \ LOOP \ EXIT WHEN num <= 1; \ RETURN NEXT fib2; \ num = num - 1; \SELECT fib2, fib1 + fib2 INTO fib1, fib2; \ END LOOP; \END; \ \$\$ language plpgsql; \ select fibonacci(12);
			<u>EMPLOYEE SALARY AVERAGE</u> create table emp_sal(empno int,ename varchar(10),edep

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varchar(10),salary numeric);
select* from emp_sal; \create
function avgsal(deptt
varchar(10))returns
numeric(10,2) as \ 'declare \
avgsal numeric(10,2); \ begin \
avgsal=(select avg(salary) from
emp_sal group by edept having
edept= deptt); \ return avgsal; \
end;'language plpgsql;

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EXAM RESULT create table
examresult(rollno int,avg_score
float,grade char(1)); insert into
examresult values(1,90); do ' \
declare \r record; \ gr char(1); \
begin \ for r in select
rollno,avg_score,grade from
examresult \ loop \ if
r.avg_score>=90 then gr:="A"; \
elseif(r.avg_score>=75) then
gr:="B"; \
elseif(r.avg_score>=60) then
gr:="C"; \
elseif(r.avg_score>=50) then
gr:="D"; \ else gr:="E"; \ end if;
\ update examresult set
grade=gr where rollno=r.rollno;
\ end loop; \ end'; \ select *
from examresult; **STUDENT**
create table student1(regno
varchar(10), sname varchar(20),
sub1 int,sub2 int,sub3 int,sub4
int,sub5 int,total int,avg float);
create or replace function proc()
returns trigger as 'begin \
new.total=new.sub1+new.sub2
+new.sub3+new.sub4+new.sub
5; \ new.avg=new.total/5.0; \
return new; \ end;' \ language
plpgsql; create trigger tr before
insert on student1 for each row
execute procedure proc(); insert
into student1 values('12',
'aa',12,30,40,50,50); select *
from student1;

PHONE BOOK create table
phone_book(pname varchar(10)
primary key,mobno integer);
create table
del_phonebook(pname
varchar(10) primary key,mobno
integer,modify_date date);
insert into phone_book
values('aaa',369369369); \
insert into phone_book
values('bbb',369369469); \

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insert into phone_book
values('ccc',469369369); create
or replace function proc()
returns trigger as \ 'begin \
insert into del_phonebook
values
(old.pname,old.mobno,current_
date);\ return new;\
end;'language plpgsql;\ create
trigger tr after delete on
phone_book for each row\
execute procedure proc ();

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