Assignment 3:

Stored Functions:

**Q1) Write a stored function to accept route no and display bus information running on that route**

create or replace function bus\_info(int)

returns void as'

declare

rec record;

begin

select into rec bno, capacity, depot\_name, rno from bus where rno=$1;

raise notice ''The information of bus running on given route number is: % % %

%'', rec.bno, rec.capacity, rec.depot\_name, rec.rno;

end;'

language 'plpgsql';

CREATE FUNCTION

select bus\_info(101);

NOTICE: The information of bus running on given route number is: 1001 30 Kothrood

101

bus\_info

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(1 row)

**Q2) Write a stored function to accept shift and depot name and display driver details who having duty allocated after ‘01/07/2020’.**

create function driver\_derails(text, text)

returns void as'

declare

rec record;

begin

select into rec driver.dno, dname,lic\_no,age from driver, bus,bd where bd.bno=bus.bno and driver.dno=bd.dno and shift = $1 and depot\_name = $2 and duty\_date >''07-01-2020'';

raise notice '' The details of the driver on given shift and depot\_name are: % % % %'',rec.dno,rec.dname,rec.lic\_no,rec.age;

end;'

language 'plpgsql';

select driver\_details('Morning', 'Kothrood');

NOTICE: The information of driver is: 11 Akash 300451 46

driver\_details

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(1 row)

**Q3) Write a stored function to accept source name and display count of buses running from source place**

create or replace function cnt\_bus(text)

returns void as'

declare

cnt int;

begin

select into cnt count(bno) from bus,route where route.rno=bus.rno and route.rno=(select rno from route where source=$1);

raise notice''The count of buses running from given source is: %'',cnt;

end;'

language 'plpgsql';

CREATE FUNCTION

select cnt\_bus('Deccan');

NOTICE: The count of buses running from given source is: 2

cnt\_bus

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(1 row)

**Q4) Write a stored function to accept depot name and display driver details having age more than 50.**

create or replace function driver\_info(text)

returns void as'

declare

rec record;

begin

select into rec driver.dno,dname,age,lic\_no from driver,bus,bd where bus.bno=bd.bno and driver.dno=bd.dno and depot\_name=$1 and driver.age>40;

raise notice''The information of the driver is: '';

raise notice''% % % %'',rec.dno,rec.dname,rec.age,rec.lic\_no;

end;'

language 'plpgsql';

CREATE FUNCTION

select driver\_info('Bhosari');

NOTICE: The information of the driver is:

NOTICE: 10 Shankar 50 300450

driver\_info

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(1 row)