EXP 7: COMPLEX SQL QUERY-II

C3. Consider the following relations of BART system

Stop(stopid, name)

Directed Route(routenumber, name)

RouteStop(routenumber,stopid,rank)

select * from stop;

STOPID	NAME
1	abc
2	def
5	daly city
3	ghi
4	berkeley

select * from directedroute;

ROUTENO	NAME
4555	yellow west
4666	blue west
4777	red north

select * from routestop;

ROUTENO	STOPID	RANK
4777	2	2
4555	1	1
4555	2	1
4666	4	3
4777	3	2
4666	3	3
4666	5	3

1)How many stops are there on the yellow west route.

select count(stopid) from routestop where routeno = (select routeno from directedroute where name='yellow west');

COUNT(STOPID)
2

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2)List the stops on red north in alphabetical order

select name from stop where stopid in (select stopid from routestop where routeno=(select routeno from directedroute where name='red north')) order by name ;

NAME
def
ghi

3)List the last stop on blue west

select name,stopid from stop where stopid in (select max(stopid) from routestop where routeno in(select routeno from directedroute where name='blue west')) ;

NAME	STOPID
daly city	5

4) List the route numbers which connects Berkeley and daly city.

select distinct routeno from routestop where stopid in (select stopid from stop where name in ('berkeley','daly city'));

ROUTENO
4666

5) Find the second stop on blue west route.

select name from stop where stopid=(select stopid from (select row_number() OVER (ORDER BY stopid ASC) AS rownumber, stopid from routestop where routeno = (select routeno from directedroute where name='blue west')) where rownumber=2) ;

NAME
berkeley