











create table communication

(id number(6) primary key

,name varchar2(20))

create table communication\_channel

(id number(6) primary key

,customer\_id number(6)

,communication\_id number(6))

create table customer

(id number(10) primary key

,name varchar(40)

,email varchar(100)

,street\_address varchar(100)

,city varchar(40)

,state varchar(2)

,zip\_code varchar(10)

)

create table bank\_account

(id number(10) primary key

,customer\_id number(10)

,bank\_account\_number number(20)

,account\_type varchar(10)

,active varchar(1)

,inactive\_date date

);

insert into communication values (1,'PRINT\_STATEMENT');

insert into communication values (2,'EMAIL\_STATEMENT');

insert into communication values (3,'SMS\_ALERT');

insert into communication\_channel values (11,111,1);

insert into customer values (111,'tom','t@gmail.com','tadd','tcity','ts','5000');

insert into bank\_account values (43,222,45678,'SAVINGS','N','22-FEB-16');

1.)select count(\*) from customer c join communication\_channel ch

on c.id = ch.customer\_id

join communication co

on co.id=ch.communication\_id

where co.name IN ('PRINT\_STATEMENT','EMAIL\_STATEMENT','SMS\_ALERT');

2.) select count(\*),co.name from customer c join communication\_channel ch

on c.id = ch.customer\_id

join communication co

on co.id=ch.communication\_id

group by co.name;

3) SELECT c.name,c.street\_address

FROM customer c INNER JOIN

(SELECT customer\_id, COUNT(DISTINCT account\_type)

FROM bank\_account

GROUP BY customer\_id having COUNT(DISTINCT account\_type) >1 )b

ON c.id=b.customer\_id;

4)

select c.id from customer c

join bank\_account b

on c.id = b.customer\_id

where b.active = 'N';

5) insert into communication\_channel values (77,47,30);

select \* from communication\_channel;