# I. Using simple queries do the following:

1. List the employees who are manager or assistant manager

select emp\_name from nhbp\_master where desig='manager' or desig='assistant manager';

2. List the employees whose grade is 1 or 2 or 3

select emp\_name from nhbp\_master where grade in(1,2,3);

3. List the employees whose grade is 3 and salary >= 5500

select emp\_name from nhbp\_master where grade=3 and salary>=5500;

4. List the employees whose salary between 1000 and 5000

select emp\_name from nhbp\_master where salary between 1000 and 5000;

5. List the employees whose address contains the string ‘South’

select emp\_name from nhbp\_master where ADDRESS like '%South%';

6. List the employees who don’t have a phone.

select emp\_name from nhbp\_master where phone is null;

7. List the employees who are subordinates of Coimbatore branch

select emp\_name from nhbp\_master where city in('coimbatore','Coimbatore');

8. List the employees whose city is not Madurai or Coimbatore or Madras

select emp\_name from nhbp\_master where city not in('madurai','Madurai','Coimbatore','coimbatore','madras','Madras');

9. List all the customer who have got more than 50000 as their credit limit

select name from nhbp\_cust where CREDIT\_LIMIT>50000;

10. List all the items along with its total cost

select item\_name,unit\_price from nhbp\_item;

11. List all the orders got on 01/01/95

select order\_id from nhbp\_order where ORDER\_DATE=to\_date('01-01-1995','dd-mm-yyyy');

12. List all the orders whose delivery duration is less than 15 days

select \* from nhbp\_order where ship\_date-order\_date<15;

13. List the entire employees name starting with ‘P’

select emp\_name from nhbp\_master where emp\_name like 'P%';

14. Find out what are all the Destinations are there in employee master table

select distinct desig from nhbp\_master;

15. Find out the grades for all designations

select distinct desig,grade from nhbp\_master;

16. Display all the order details sorted by date

select \* from nhbp\_order order by order\_date;

17. Display all the employees sorted on grade in descending order

select emp\_name from nhbp\_master order by grade desc;

18. Display all the employees sorted by grade and name

select emp\_name,grade from nhbp\_master order by grade,emp\_name;

19. Display all the employees sorted by salary

select emp\_name,salary from nhbp\_master order by salary;

20. Display all the order details sorted by ship date

select \* from nhbp\_order order by ship\_date;

21. Display all the staff who is working as System Executive, Programmer & Operator

select emp\_name,desig from nhbp\_master where desig in('system executive','programmer','operator');

22. Display all the orders placed on 01/04/95

select \* from nhbp\_order where ORDER\_DATE=to\_date('01-04-1995','dd-mm-yyyy');

23. Display all the customers whose credit limit is greater than 50000 for the representative 3001.

select name from nhbp\_cust where credit\_limit>50000 and representative=3001;

# II. Using sub queries do the following:

1. Display all the branches which are not having Programmers.

select b.branch\_code,e.desig from nhbp\_branch b,nhbp\_master e where b.branch\_code=e.branch\_code and desig not in('programmer');

2. Display the Reporting Person to the Coimbatore branch Manager.

select emp\_name from nhbp\_master where boss=(select emp\_code from nhbp\_master where desig='manager' and city in('Coimbatore','coimbatore','cbe'));

3. Display the Employee’s address whose customer is TVS.

select address from nhbp\_master where emp\_code=(select representative from nhbp\_cust where name='TVS');

4. Display the Customers of the Coimbatore Branch representatives.

select name from nhbp\_cust where representative in(select emp\_code from nhbp\_master where city in('Coimbatore','coimbatore','cbe'));

5. Display the representatives of Madurai Customers.

select emp\_code from nhbp\_master where emp\_code in(select representative from nhbp\_cust where city in('MADURAI'));

6. Display all the orders given by the customers whose credit limit is between 50000 and 70000.

select order\_id from nhbp\_order where customer\_id in(select cust\_code from nhbp\_cust where credit\_limit between 50000 and 70000);

7. Display all the staff who are working in Gokul’s Branch.

select emp\_name from nhbp\_master where branch\_code in(select branch\_code from nhbp\_master where emp\_name='GOKUL');

8. Display all the items whose order qty is >= 10.

select item\_name from nhbp\_item where item\_id in(select item\_id from nhbp\_sales where quantity>=10);

9. Display all the employees whose salary is greater than Hari’s salary.

select emp\_name from nhbp\_master where salary>(select salary from nhbp\_master where emp\_name='HARI');

10. Display all the employees who are not having subordinates.

select emp\_name,emp\_code from nhbp\_master where emp\_code not in(select distinct boss from nhbp\_master);

11. Display all Madurai Branch Representative’s customers who are having their credit limit as more than 75000.

select name,credit\_limit,city,representative from nhbp\_cust where representative in(select emp\_code from nhbp\_master where city in ('Madurai','madurai','MADURAI')) and credit\_limit>75000;

12. Display all the employees whose salary is greater than a Programmer’s minimum salary in Programmer’s grade.

select emp\_name from nhbp\_master where salary>(select min(salary) from nhbp\_master where desig='programmer');

13. Display all the items which are not having any order.

select item\_name from nhbp\_item where item\_id not in (select item\_id from nhbp\_sales);

14. Display all the items whose rates exceed the rate of the item VGA Card.

select item\_name from nhbp\_item where unit\_price>(select unit\_price from nhbp\_item where item\_name='vga card');

15. Display all the branches which are having all the designated employees.

select count(distinct desig),branch\_code from nhbp\_master group by branch\_code having count(distinct desig)=(select count(distinct desig) from nhbp\_master);

16. Display all the orders which are given by UCA.

select order\_id from nhbp\_order where customer\_id in (select cust\_code from nhbp\_cust where name='UCA');

17. Display all the representatives who are not having their customers.

select emp\_code from nhbp\_master where emp\_code not in (select representative from nhbp\_cust) and desig='representative';

18. Display all the branches which are not having all the grades.

select count(distinct grade),branch\_code from nhbp\_master group by branch\_code having count(distinct grade)!=(select count(distinct grade) from nhbp\_master);

19. Display all the customer code who has ordered an amount for which the commission exceeds 2500.

select cust\_code from nhbp\_cust where cust\_code=(select customer\_id from nhbp\_order where commission>2500);

# III. Using Correlated sub query do the following:

1. Display all the employees whose salary is greater than their grades’ average salary.

select emp\_name,grade,salary from nhbp\_master a where salary>(select avg(salary) from nhbp\_master b where a.grade=b.grade group by grade);

2. Display all the employees whose salary is minimum salary in their corresponding grade

select emp\_name,salary,grade from nhbp\_master a where salary=(select min(salary) from nhbp\_master b where a.grade=b.grade group by grade);

3. Display all branch whose total strength of the employees greater than 5.

select branch\_code from nhbp\_master a group by branch\_code having count(emp\_code)>5 ;

4. Display all the employees who are working in a department (branch) where the total strength is greater than 5.

select emp\_name from nhbp\_master a where branch\_code=(select branch\_code from nhbp\_master b where a.branch\_code=b.branch\_code group by branch\_code having count(emp\_code)>5) ;

5. Display all the orders which include the item code 1.

select order\_id from nhbp\_sales a where item\_id=1;

6. Display all the orders whose total quantity exceeds 10.

select item\_id,quantity from nhbp\_sales where quantity>10;

7. Display all the employees whose salary is the maximum salary in their corresponding branch.

select emp\_name,salary,grade from nhbp\_master a where salary=(select max(salary) from nhbp\_master b where a.branch\_code=b.branch\_code group by branch\_code);

8. Display all the items which are not having any order.

select item\_name from nhbp\_item where item\_id not in(select item\_id from nhbp\_sales);

9. Display all the representatives who are not having their customers.

select emp\_code from nhbp\_master where emp\_code not in (select representative from nhbp\_cust) and desig='representative';

10. Display all the orders which are having an order amount more than 20000.

select order\_id from nhbp\_order where total\_amount>20000;

11. Display all the representatives who have got more than total amount 50000.

select representative from nhbp\_cust where cust\_code in(select customer\_id from nhbp\_order where total\_amount>50000);

12. Display all the employees who are working in their Native place.

select emp\_name from nhbp\_master where emp\_code in (select emp\_code from nhbp\_master where city in(select city from nhbp\_branch));

13. Display all the employees who are not working in their Native place.

select emp\_name from nhbp\_master where emp\_code not in (select emp\_code from nhbp\_master where city in(select city from nhbp\_branch));

14. Display all the customers who have ordered an amount that exceeds their credit limits.

select name from nhbp\_cust where cust\_code in(select customer\_id from nhbp\_order a,nhbp\_cust b where a.customer\_id=b.cust\_code and total\_amount>credit\_limit);

# V. Using GROUP BY do the following:

1. Display branch code and its total salary.

select distinct branch\_code,sum(salary) from nhbp\_master group by branch\_code;

2. Display grade and its total strength.

select distinct grade,count(emp\_code) from nhbp\_master group by grade;

3. Display the designation and its total salary.

select desig,sum(salary) from nhbp\_master group by desig;

4. Display the grade and its strength, total salary, average salary.

select distinct grade,count(emp\_code) as strength,sum(salary) as tot\_sal,avg(salary) as avg\_sal from nhbp\_master group by grade;

5. Display the total salary, strength, average salary, maximum salary and minimum salary on grade.

select sum(salary) as tot\_sal,avg(salary) as avg\_sal,min(salary) as min\_sal,max(salary) as max\_sal from nhbp\_master group by grade;

6. Display the total salary on grade and designation.

select distinct desig,sum(salary) as tot\_sal from nhbp\_master group by grade,desig;

7. Display the maximum salary on designation order.

select distinct desig,max(salary) as max\_sal from nhbp\_master group by desig order by desig;

8. Display the strength of the staff on year (date of join) order.

select join\_date,count(emp\_code) as strength from nhbp\_master group by join\_date order by join\_date;

9. Display the branch code and its total strength.

select distinct branch\_code,count(emp\_code) as strength from nhbp\_master group by branch\_code;

10. Display the representative code and their total customer.

select representative,count(cust\_code) from nhbp\_cust group by representative;

11. Display all the branches whose total salary exceeds the total salary of the branch code 40.

select branch\_code,sum(salary) as tot\_sal from nhbp\_master where sum(salary)>(select salary from nhbp\_master where branch\_code=40) group by branch\_code;

12. Display the boss and its strength of subordinates.

select distinct boss,count(emp\_code) from nhbp\_master group by boss;

13. Display all the representative code and their total commission.

select distinct representative,count(commission) from nhbp\_cust group by representative;

# VI. Using joins do the following:

1. Display all the employees who are working in their Native

2. Display all the employees code, name and their branch City

select a.emp\_code,a.emp\_name, b.city from mas\_xbbnhci a,branch\_xbbnhci b where city in(select distinct city from branch\_xbbnhci group by branch\_code) and a.branch;

3. Display all the customers along with their representative names

select b.name,a.emp\_name from cust\_xbbnhci b,mas\_xbbnhci a where(a.emp\_code=b.representative and a.desig='representative');

4. Display all the order details along with its order and ship dates

select \*from order\_xbbnhci ;,

5. Display all the order details along with its item name, unit price

select a.order\_id,b.item\_id from order\_xbbnhci a,sales\_xbbnhci b where(a.order\_id=b.order\_id);

6. Display all the order along with its customers

select a.order\_id,b.name from order\_xbbnhci a,cust\_xbbnhci b where(a.customer\_id=b.cust\_code);

7. Display all the order details along with its order dates, ship dates and customer name

select a.order\_id,a.order\_date,a.ship\_date,b.name from order\_xbbnhci a,cust\_xbbnhci b where(a.customer\_id=b.cust\_code);

8. Display all the order details along with its order dates, ship date, customer name, item name and unit price.

select order\_id a,order\_date a,ship\_date a,

9. Display all the order details along with its order dates, ship date, customer name, item name, unit price received by coimbatore branch representative.

10. Display all the branch codes along with its total salary.

select branch\_code,sum(salary) as tot\_sal from mas\_XBBNHCI group by branch\_code order by branch\_code;

11. Display all the order id along with its total quantity.

select a.order\_id,b.item\_id,b.Q\_ON\_HAND from sales\_xbbnhci a,item\_xbbnhci b where(a.item\_id=b.item\_id);

12. Display all the order id along with its total amount.

select a.order\_id,a.item\_id,b.unit\_price\*a.quantity as tot\_amount from sales\_xbbnhci a,item\_xbbnhci b where a.item\_id=b.item\_id;

13. Display all the employees who are not working in their native place.

select emp\_name from mas\_xbbnhci where emp\_code not in(select emp\_code from mas\_xbbnhci where city in (select city from branch\_xbbnhci));