Question 4

(1)

SELECT DISTINCT BankName
FROM Banks NATURAL JOIN hasAccounts NATURAL JOIN Robbers WHERE Nickname ='Calamity Jane';
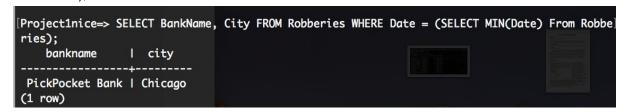
```
Project1nice=> SELECT DISTINCT BankName
Project1nice-> FROM Banks NATURAL JOIN hasAccounts NATURAL JOIN Robbers WHERE Nickname ='Cala
mity Jane';
    bankname
-----------------
 Bad Bank
 Dollar Grabbers
 PickPocket Bank
(3 rows)
```

(2)

SELECT BankName, Security
FROM Banks
WHERE City='Chicago' AND NoAccounts>9000;

```
Project1nice=> SELECT BankName, Security
Project1nice-> FROM Banks
Project1nice-> WHERE City='Chicago' AND NoAccounts>9000;
    bankname      | security
------------------+-----------
 NXP Bank         | very good
 Loanshark Bank   | excellent
 Inter-Gang Bank  | excellent
 Penny Pinchers   | weak
 Dollar Grabbers  | very good
 PickPocket Bank  | weak
 Hidden Treasure  | excellent
(7 rows)
```

(3)

SELECT BankName, City
FROM Banks

WHERE BankName NOT IN (SELECT BankName FROM Banks WHERE City = 'Chicago')
ORDER BY NoAccounts ASC;

```
Project1nice=> SELECT BankName, City
Project1nice-> FROM Banks
Project1nice-> WHERE BankName NOT IN (SELECT BankName FROM Banks WHERE City = 'Chicago') ORDE
R BY NoAccounts ASC;
    bankname     |   city
-----------------+----------
 Gun Chase Bank  | Burbank
 Bankrupt Bank   | Evanston
 Gun Chase Bank  | Evanston
(3 rows)
```

(4)

SELECT BankName, City FROM Robberies WHERE Date = (SELECT MIN(Date) From Robberies);

```
[Project1nice=> SELECT BankName, City FROM Robberies WHERE Date = (SELECT MIN(Date) From Robbe]
ries);
    bankname     |   city
-----------------+----------
 PickPocket Bank | Chicago
(1 row)
```
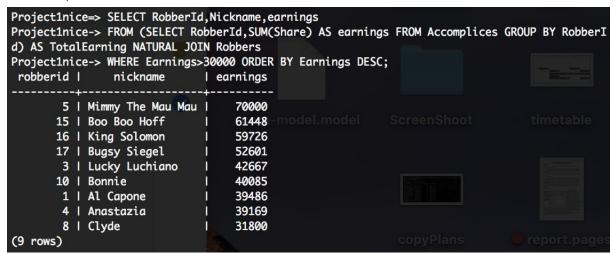
(5)

SELECT RobberId,Nickname,earnings
FROM (SELECT RobberId,SUM(Share) AS earnings FROM Accomplices GROUP BY RobberId) AS TotalEarning NATURAL JOIN Robbers
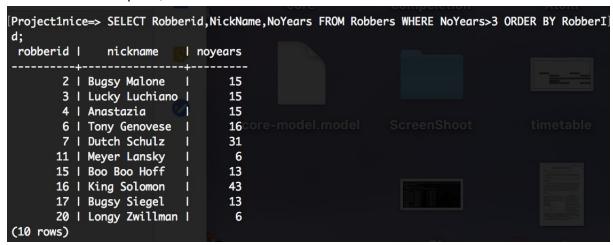WHERE Earnings>30000 ORDER BY Earnings DESC;

```
Project1nice=> SELECT RobberId,Nickname,earnings
Project1nice-> FROM (SELECT RobberId,SUM(Share) AS earnings FROM Accomplices GROUP BY RobberI
d) AS TotalEarning NATURAL JOIN Robbers
Project1nice-> WHERE Earnings>30000 ORDER BY Earnings DESC;
 robberid |       nickname       | earnings
----------+----------------------+----------
        5 | Mimmy The Mau Mau    |    70000
       15 | Boo Boo Hoff         |    61448
       16 | King Solomon         |    59726
       17 | Bugsy Siegel         |    52601
        3 | Lucky Luchiano       |    42667
       10 | Bonnie               |    40085
        1 | Al Capone            |    39486
        4 | Anastazia            |    39169
        8 | Clyde                |    31800
(9 rows)
```

(6)

SELECT Robberid,NickName,NoYears FROM Robbers WHERE NoYears>3 ORDER BY RobberId;

```
Project1nice=> SELECT RobberId,Nickname,earnings
Project1nice-> FROM (SELECT RobberId,SUM(Share) AS earnings FROM Accomplices GROUP BY RobberI
d) AS TotalEarning NATURAL JOIN Robbers
Project1nice-> WHERE Earnings>30000 ORDER BY Earnings DESC;
 robberid |      nickname      | earnings
----------+--------------------+----------
        5 | Mimmy The Mau Mau  |    70000
       15 | Boo Boo Hoff       |    61448
       16 | King Solomon       |    59726
       17 | Bugsy Siegel       |    52601
        3 | Lucky Luchiano     |    42667
       10 | Bonnie             |    40085
        1 | Al Capone          |    39486
        4 | Anastazia          |    39169
        8 | Clyde              |    31800
(9 rows)
```

(7)
SELECT RobberId , Nickname, Description
FROM Robbers NATURAL JOIN HasSkills NATURAL JOIN Skills

ORDER BY Description;

```
[Project1nice=> SELECT Robberid,NickName,NoYears FROM Robbers WHERE NoYears>3 ORDER BY RobberI]
d;
 robberid |    nickname     | noyears
----------+-----------------+---------
        2 | Bugsy Malone    |     15
        3 | Lucky Luchiano  |     15
        4 | Anastazia       |     15
        6 | Tony Genovese   |     16
        7 | Dutch Schulz    |     31
       11 | Meyer Lansky    |      6
       15 | Boo Boo Hoff    |     13
       16 | King Solomon    |     43
       17 | Bugsy Siegel    |     13
       20 | Longy Zwillman  |      6
(10 rows)
```

(8)
SELECT RobberId, NickName , (Age-NoYears) AS NumberOfYears FROM Robbers
WHERE NoYears > (Age/2);

```
Project1nice=> SELECT RobberId, NickName , (Age-NoYears) AS NumberOfYears FROM Robbers
Project1nice-> WHERE NoYears > (Age/2);
 robberid |    nickname    | numberofyears
----------+----------------+---------------
        6 | Tony Genovese  |            12
       16 | King Solomon   |            31
(2 rows)
```