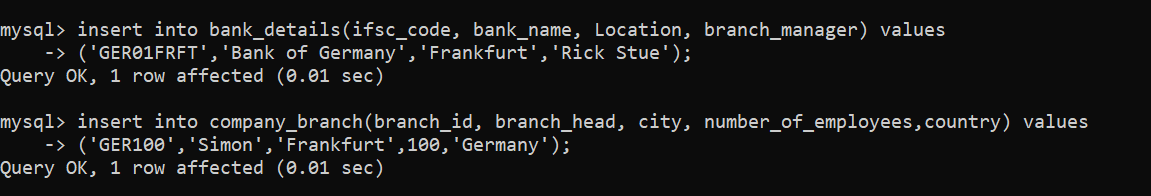
**Queries for insert:**

*insert into bank\_details(ifsc\_code, bank\_name, Location, branch\_manager) values*

*('GER01FRFT','Bank of Germany','Frankfurt','Rick Stue');*

*insert into company\_branch(branch\_id, branch\_head, city, number\_of\_employees,country) values ('GER100','Simon','Frankfurt',100,'Germany');*

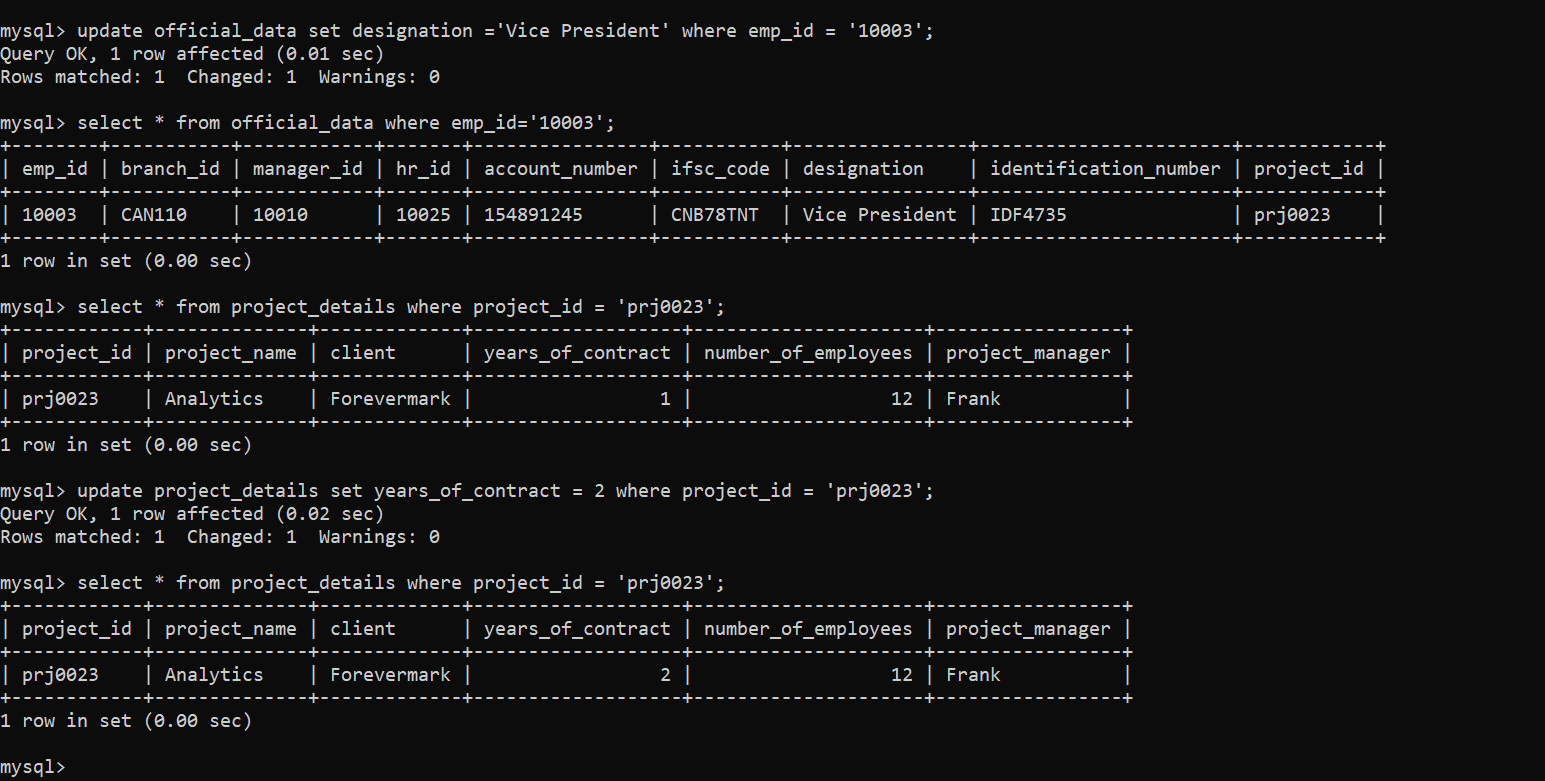


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**Queries to update:**

*update official\_data set designation ='Vice President' where emp\_id = '10003';*

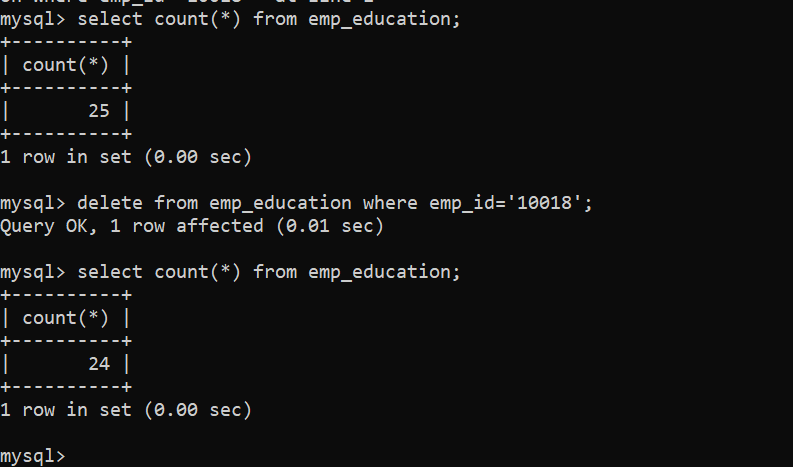
*update project\_details set years\_of\_contract = 2 where project\_id = 'prj0023';*



==================================================================================

**Delete Statement :**

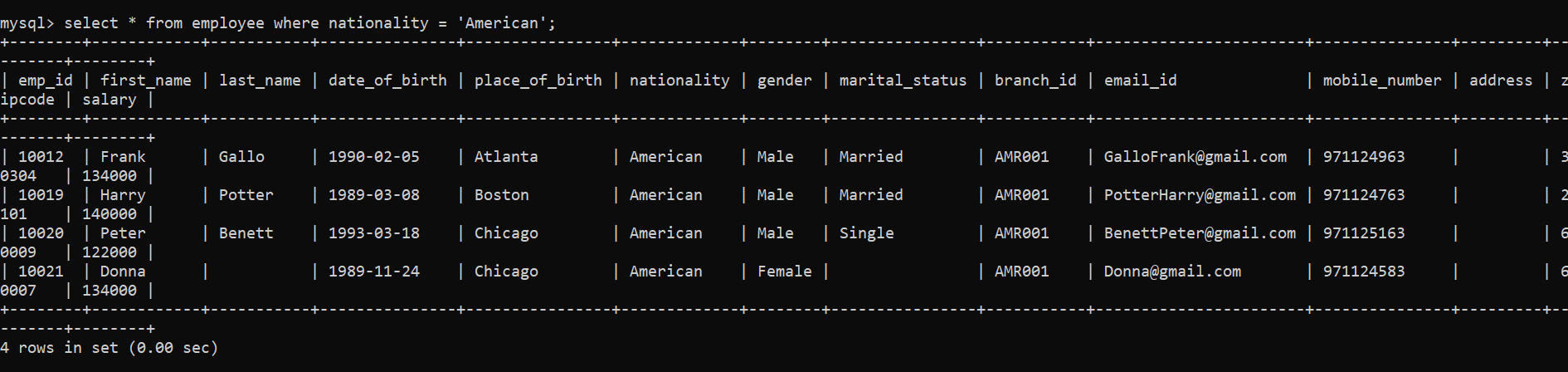
*delete from emp\_education where emp\_id='10018';*



===================================================================================

**Select statement :**

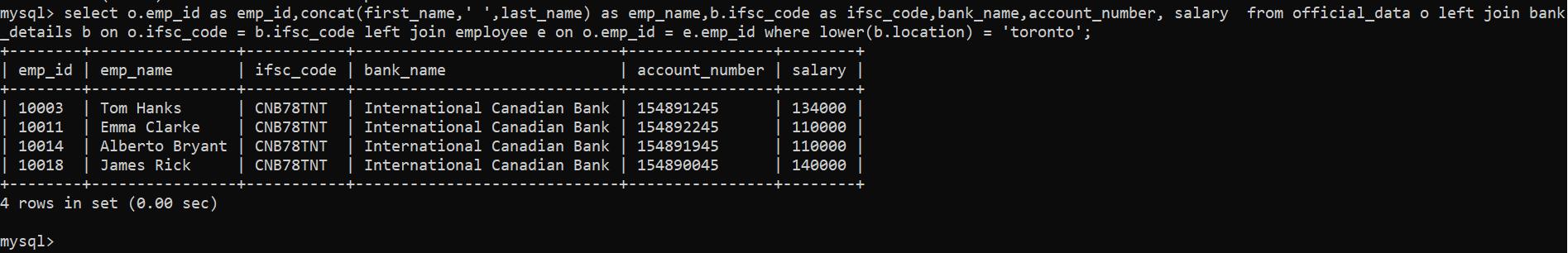
*select \* from employee where nationality = 'American';*



===================================================================================

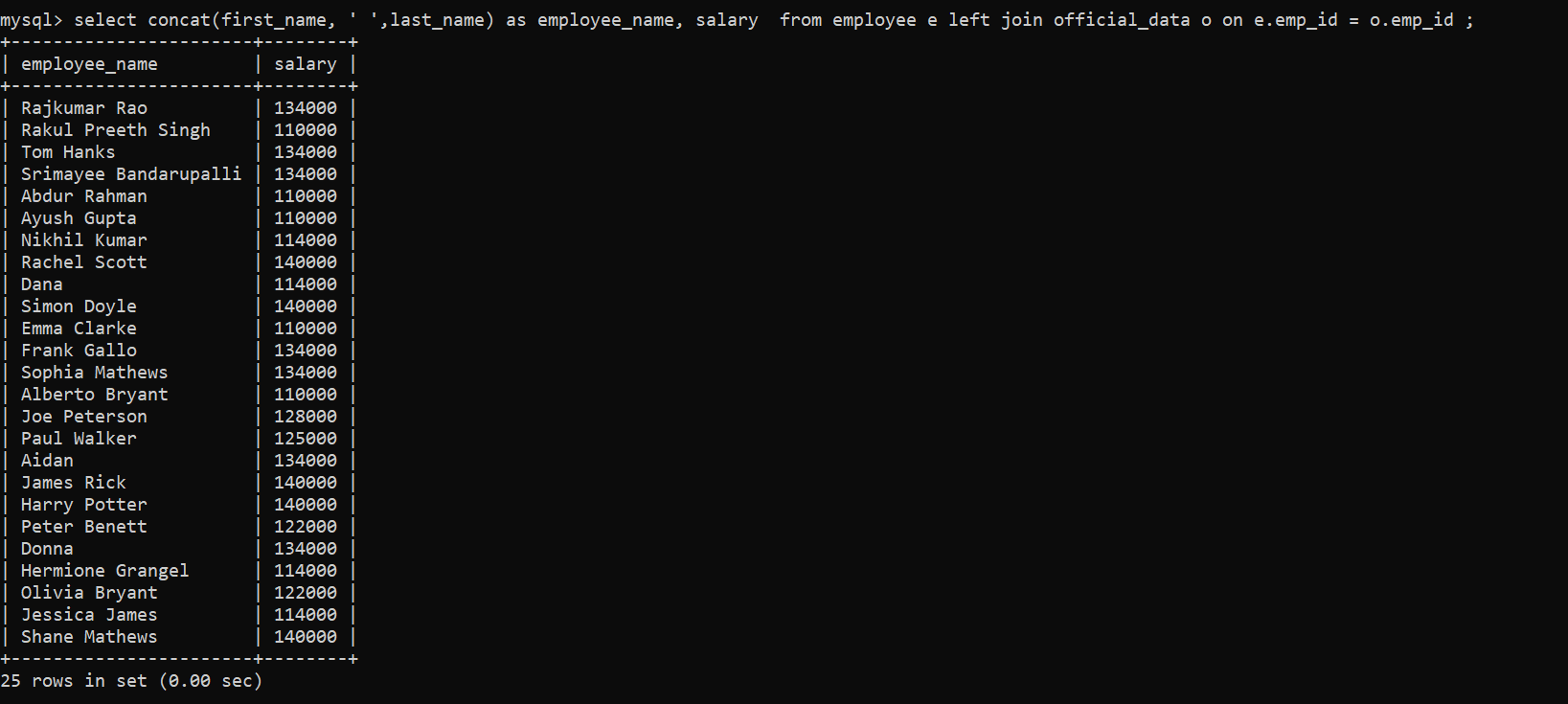
**Joining three tables:**

*select o.emp\_id as emp\_id,concat(first\_name,' ',last\_name) as emp\_name,b.ifsc\_code as ifsc\_code,bank\_name,account\_number, salary from* ***official\_data*** *o left join* ***bank\_details*** *b on o.ifsc\_code = b.ifsc\_code left join* ***employee*** *e on o.emp\_id = e.emp\_id where lower(b.location) = 'toronto';*



**Left join on two tables :**

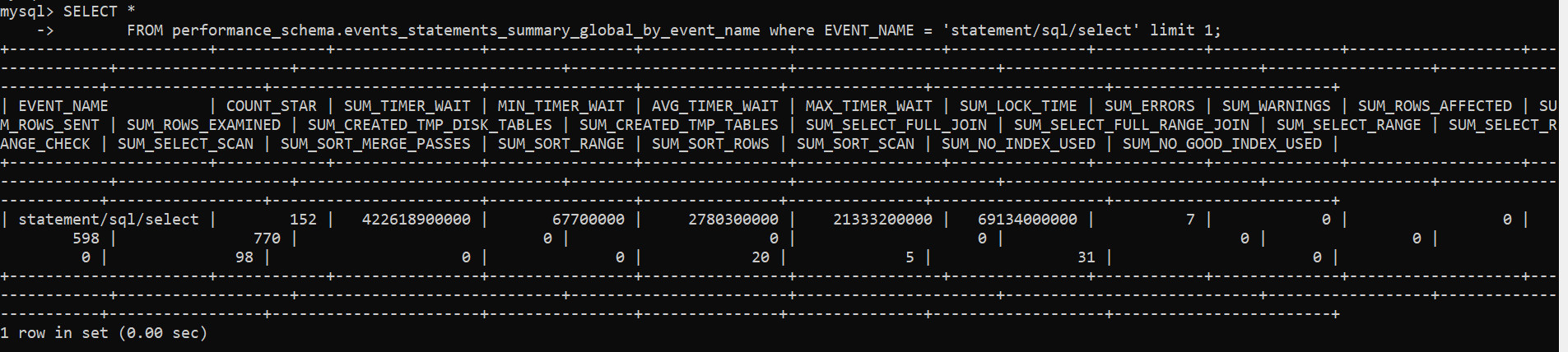
*select concat(first\_name, ' ',last\_name) as employee\_name, salary from employee e left join official\_data o on e.emp\_id = o.emp\_id ;*



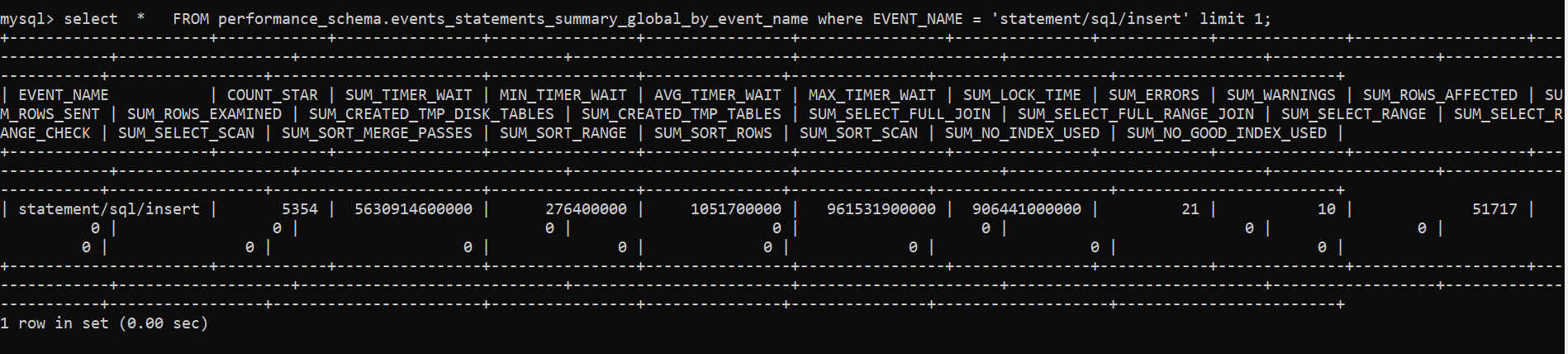
**===================================================================================**

**Summary statements:**

*SELECT \* FROM performance\_schema.events\_statements\_summary\_global\_by\_event\_name where EVENT\_NAME = 'statement/sql/select' limit 1;*



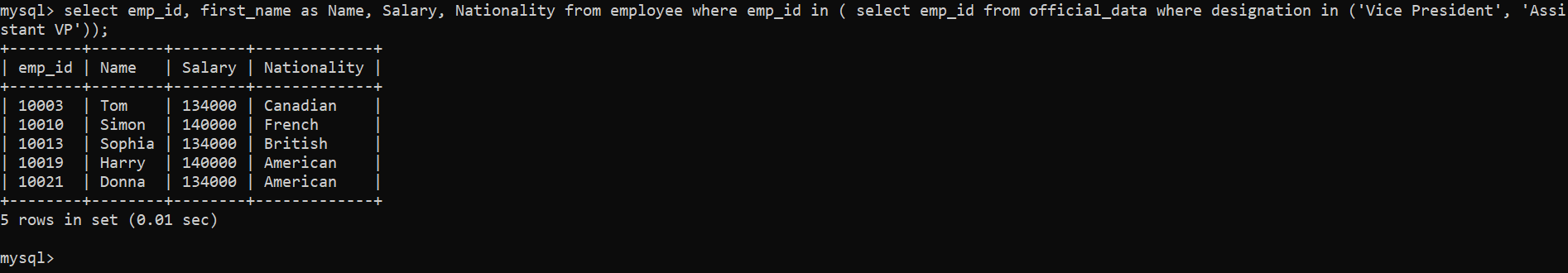
*select \* FROM performance\_schema.events\_statements\_summary\_global\_by\_event\_name where EVENT\_NAME = 'statement/sql/insert' limit 1;*



**===================================================================================**

**Multi Table query/Sub query :**

*select emp\_id, first\_name as Name, Salary, Nationality from employee where emp\_id in ( select emp\_id from official\_data where designation in ('Vice President', 'Assistant VP'));*



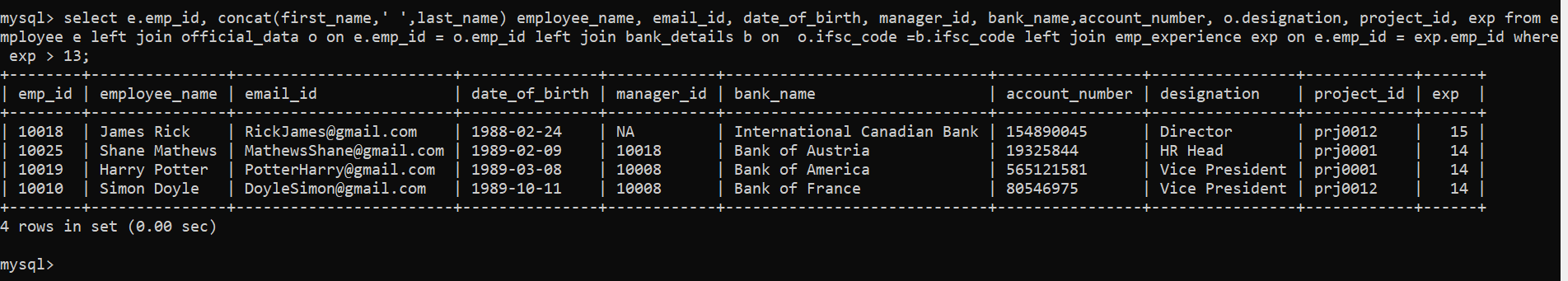
**===================================================================================**

**Query of My Choice:**

*Below is used to fetch all details of the employees whose experience is grater than 13, it uses the join on 4 different tables*

-->

*select e.emp\_id, concat(first\_name,' ',last\_name) employee\_name, email\_id, date\_of\_birth, manager\_id, bank\_name,account\_number, o.designation, project\_id,exp from* ***employee*** *e left join* ***official\_data*** *o on e.emp\_id = o.emp\_id left join* ***bank\_details*** *b on o.ifsc\_code =b.ifsc\_code left join* ***emp\_experience*** *exp on e.emp\_id = exp.emp\_id where exp > 13;*



================================================================================

Below is the back to back execution result of all the above twelve queries, I have copy pasted it as I was not able to take the screenshot of all 12 queries in a single screenshot, individual screenshots are already pasted above.

mysql> insert into bank\_details(ifsc\_code, bank\_name, Location, branch\_manager) values

-> ('GER01FRFT','Bank of Germany','Frankfurt','Rick Stue');

Query OK, 1 row affected (0.01 sec)

mysql> insert into company\_branch(branch\_id, branch\_head, city, number\_of\_employees,country) values ('GER100','Simon','Frankfurt',100,'Germany');

Query OK, 1 row affected (0.01 sec)

mysql> update official\_data set designation ='Vice President' where emp\_id = '10003';

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update project\_details set years\_of\_contract = 2 where project\_id = 'prj0023';

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> delete from emp\_education where emp\_id='10018

'> ;

'> ';

Query OK, 0 rows affected (0.00 sec)

mysql> select \* from employee where nationality = 'American';

+--------+------------+-----------+---------------+----------------+-------------+--------+----------------+-----------+-----------------------+---------------+---------+---------+--------+

| emp\_id | first\_name | last\_name | date\_of\_birth | place\_of\_birth | nationality | gender | marital\_status | branch\_id | email\_id | mobile\_number | address | zipcode | salary |

+--------+------------+-----------+---------------+----------------+-------------+--------+----------------+-----------+-----------------------+---------------+---------+---------+--------+

| 10012 | Frank | Gallo | 1990-02-05 | Atlanta | American | Male | Married | AMR001 | GalloFrank@gmail.com | 971124963 | | 30304 | 134000 |

| 10019 | Harry | Potter | 1989-03-08 | Boston | American | Male | Married | AMR001 | PotterHarry@gmail.com | 971124763 | | 2101 | 140000 |

| 10020 | Peter | Benett | 1993-03-18 | Chicago | American | Male | Single | AMR001 | BenettPeter@gmail.com | 971125163 | | 60009 | 122000 |

| 10021 | Donna | | 1989-11-24 | Chicago | American | Female | | AMR001 | Donna@gmail.com | 971124583 | | 60007 | 134000 |

+--------+------------+-----------+---------------+----------------+-------------+--------+----------------+-----------+-----------------------+---------------+---------+---------+--------+

4 rows in set (0.00 sec)

mysql> select o.emp\_id as emp\_id,concat(first\_name,' ',last\_name) as emp\_name,b.ifsc\_code as ifsc\_code,bank\_name,account\_number, salary from official\_data o left join bank\_details b on o.ifsc\_code = b.ifsc\_code left join employee e on o.emp\_id = e.emp\_id where lower(b.location) = 'toronto';

+--------+----------------+-----------+-----------------------------+----------------+--------+

| emp\_id | emp\_name | ifsc\_code | bank\_name | account\_number | salary |

+--------+----------------+-----------+-----------------------------+----------------+--------+

| 10003 | Tom Hanks | CNB78TNT | International Canadian Bank | 154891245 | 134000 |

| 10011 | Emma Clarke | CNB78TNT | International Canadian Bank | 154892245 | 110000 |

| 10014 | Alberto Bryant | CNB78TNT | International Canadian Bank | 154891945 | 110000 |

| 10018 | James Rick | CNB78TNT | International Canadian Bank | 154890045 | 140000 |

+--------+----------------+-----------+-----------------------------+----------------+--------+

4 rows in set (0.01 sec)

mysql> select concat(first\_name, ' ',last\_name) as employee\_name, salary from employee e left join official\_data o on e.emp\_id = o.emp\_id ;

+-----------------------+--------+

| employee\_name | salary |

+-----------------------+--------+

| Rajkumar Rao | 134000 |

| Rakul Preeth Singh | 110000 |

| Tom Hanks | 134000 |

| Srimayee Bandarupalli | 134000 |

| Abdur Rahman | 110000 |

| Ayush Gupta | 110000 |

| Nikhil Kumar | 114000 |

| Rachel Scott | 140000 |

| Dana | 114000 |

| Simon Doyle | 140000 |

| Emma Clarke | 110000 |

| Frank Gallo | 134000 |

| Sophia Mathews | 134000 |

| Alberto Bryant | 110000 |

| Joe Peterson | 128000 |

| Paul Walker | 125000 |

| Aidan | 134000 |

| James Rick | 140000 |

| Harry Potter | 140000 |

| Peter Benett | 122000 |

| Donna | 134000 |

| Hermione Grangel | 114000 |

| Olivia Bryant | 122000 |

| Jessica James | 114000 |

| Shane Mathews | 140000 |

+-----------------------+--------+

25 rows in set (0.00 sec)

mysql> SELECT \* FROM performance\_schema.events\_statements\_summary\_global\_by\_event\_name where EVENT\_NAME = 'statement/sql/select' limit 1;

+----------------------+------------+----------------+----------------+----------------+----------------+---------------+------------+--------------+-------------------+---------------+-------------------+-----------------------------+------------------------+----------------------+----------------------------+------------------+------------------------+-----------------+-----------------------+----------------+---------------+---------------+-------------------+------------------------+

| EVENT\_NAME | COUNT\_STAR | SUM\_TIMER\_WAIT | MIN\_TIMER\_WAIT | AVG\_TIMER\_WAIT | MAX\_TIMER\_WAIT | SUM\_LOCK\_TIME | SUM\_ERRORS | SUM\_WARNINGS | SUM\_ROWS\_AFFECTED | SUM\_ROWS\_SENT | SUM\_ROWS\_EXAMINED | SUM\_CREATED\_TMP\_DISK\_TABLES | SUM\_CREATED\_TMP\_TABLES | SUM\_SELECT\_FULL\_JOIN | SUM\_SELECT\_FULL\_RANGE\_JOIN | SUM\_SELECT\_RANGE | SUM\_SELECT\_RANGE\_CHECK | SUM\_SELECT\_SCAN | SUM\_SORT\_MERGE\_PASSES | SUM\_SORT\_RANGE | SUM\_SORT\_ROWS | SUM\_SORT\_SCAN | SUM\_NO\_INDEX\_USED | SUM\_NO\_GOOD\_INDEX\_USED |

+----------------------+------------+----------------+----------------+----------------+----------------+---------------+------------+--------------+-------------------+---------------+-------------------+-----------------------------+------------------------+----------------------+----------------------------+------------------+------------------------+-----------------+-----------------------+----------------+---------------+---------------+-------------------+------------------------+

| statement/sql/select | 176 | 517331900000 | 67700000 | 2939300000 | 21333200000 | 80953000000 | 10 | 0 | 0 | 1111 | 1448 | 0 | 0 | 0 | 0 | 0 | 0 | 117 | 0 | 0 | 20 | 5 | 41 | 0 |

+----------------------+------------+----------------+----------------+----------------+----------------+---------------+------------+--------------+-------------------+---------------+-------------------+-----------------------------+------------------------+----------------------+----------------------------+------------------+------------------------+-----------------+-----------------------+----------------+---------------+---------------+-------------------+------------------------+

1 row in set (0.00 sec)

mysql> select \* FROM performance\_schema.events\_statements\_summary\_global\_by\_event\_name where EVENT\_NAME = 'statement/sql/insert' limit 1;

+----------------------+------------+----------------+----------------+----------------+----------------+---------------+------------+--------------+-------------------+---------------+-------------------+-----------------------------+------------------------+----------------------+----------------------------+------------------+------------------------+-----------------+-----------------------+----------------+---------------+---------------+-------------------+------------------------+

| EVENT\_NAME | COUNT\_STAR | SUM\_TIMER\_WAIT | MIN\_TIMER\_WAIT | AVG\_TIMER\_WAIT | MAX\_TIMER\_WAIT | SUM\_LOCK\_TIME | SUM\_ERRORS | SUM\_WARNINGS | SUM\_ROWS\_AFFECTED | SUM\_ROWS\_SENT | SUM\_ROWS\_EXAMINED | SUM\_CREATED\_TMP\_DISK\_TABLES | SUM\_CREATED\_TMP\_TABLES | SUM\_SELECT\_FULL\_JOIN | SUM\_SELECT\_FULL\_RANGE\_JOIN | SUM\_SELECT\_RANGE | SUM\_SELECT\_RANGE\_CHECK | SUM\_SELECT\_SCAN | SUM\_SORT\_MERGE\_PASSES | SUM\_SORT\_RANGE | SUM\_SORT\_ROWS | SUM\_SORT\_SCAN | SUM\_NO\_INDEX\_USED | SUM\_NO\_GOOD\_INDEX\_USED |

+----------------------+------------+----------------+----------------+----------------+----------------+---------------+------------+--------------+-------------------+---------------+-------------------+-----------------------------+------------------------+----------------------+----------------------------+------------------+------------------------+-----------------+-----------------------+----------------+---------------+---------------+-------------------+------------------------+

| statement/sql/insert | 5357 | 5653879100000 | 276400000 | 1055400000 | 961531900000 | 906912000000 | 21 | 10 | 51720 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

+----------------------+------------+----------------+----------------+----------------+----------------+---------------+------------+--------------+-------------------+---------------+-------------------+-----------------------------+------------------------+----------------------+----------------------------+------------------+------------------------+-----------------+-----------------------+----------------+---------------+---------------+-------------------+------------------------+

1 row in set (0.00 sec)

mysql> select emp\_id, first\_name as Name, Salary, Nationality from employee where emp\_id in ( select emp\_id from official\_data where designation in ('Vice President', 'Assistant VP'));

+--------+--------+--------+-------------+

| emp\_id | Name | Salary | Nationality |

+--------+--------+--------+-------------+

| 10003 | Tom | 134000 | Canadian |

| 10010 | Simon | 140000 | French |

| 10013 | Sophia | 134000 | British |

| 10019 | Harry | 140000 | American |

| 10021 | Donna | 134000 | American |

+--------+--------+--------+-------------+

5 rows in set (0.00 sec)

mysql> select e.emp\_id, concat(first\_name,' ',last\_name) employee\_name, email\_id, date\_of\_birth, manager\_id, bank\_name,account\_number, designation, project\_id,exp from employee e left join official\_data o on e.emp\_id = o.emp\_id left join bank\_details b on o.ifsc\_code =b.ifsc\_code left join emp\_experience exp on e.emp\_id = exp.emp\_id where exp > 13;

ERROR 1052 (23000): Column 'designation' in field list is ambiguous

mysql> select e.emp\_id, concat(first\_name,' ',last\_name) employee\_name, email\_id, date\_of\_birth, manager\_id, bank\_name,account\_number, o.designation, project\_id,exp from employee e left join official\_data o on e.emp\_id = o.emp\_id left join bank\_details b on o.ifsc\_code =b.ifsc\_code left join emp\_experience exp on e.emp\_id = exp.emp\_id where exp > 13;

+--------+---------------+------------------------+---------------+------------+-----------------------------+----------------+----------------+------------+------+

| emp\_id | employee\_name | email\_id | date\_of\_birth | manager\_id | bank\_name | account\_number | designation | project\_id | exp |

+--------+---------------+------------------------+---------------+------------+-----------------------------+----------------+----------------+------------+------+

| 10018 | James Rick | RickJames@gmail.com | 1988-02-24 | NA | International Canadian Bank | 154890045 | Director | prj0012 | 15 |

| 10025 | Shane Mathews | MathewsShane@gmail.com | 1989-02-09 | 10018 | Bank of Austria | 19325844 | HR Head | prj0001 | 14 |

| 10019 | Harry Potter | PotterHarry@gmail.com | 1989-03-08 | 10008 | Bank of America | 565121581 | Vice President | prj0001 | 14 |

| 10010 | Simon Doyle | DoyleSimon@gmail.com | 1989-10-11 | 10008 | Bank of France | 80546975 | Vice President | prj0012 | 14 |

+--------+---------------+------------------------+---------------+------------+-----------------------------+----------------+----------------+------------+------+

4 rows in set (0.00 sec)