\*\* Insert into database

mysql> select \* from Employees;

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

| E\_id | E\_name | E\_gender | E\_DOB | E\_DOJ | E\_email |

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

| 1 | Adam Smith | male | 1990-01-01 | 2014-01-01 | adam.smith@testcompany.com |

| 2 | Barry Jones | male | 1994-02-01 | 2015-01-01 | barry.jones@testcompany.com |

| 3 | Karma Lee | female | 1987-10-11 | 2013-01-01 | karma.lee@testcompany.com |

| 4 | Augustine Smith | male | 1983-04-01 | 2010-01-01 | augustine.smith@testcompany.com |

| 5 | aditi urunkar | female | 1985-04-21 | 2010-03-11 | aditiurunkar95@gmail.com |

| 6 | koustubh desai | male | 1980-04-01 | 2013-09-01 | koustubhdesai95@gmail.com |

| 7 | pritee chandre | female | 1993-06-15 | 2017-06-01 | priteechandre95@gmail.com |

| 8 | ashish kharade | male | 1995-03-04 | 2015-05-06 | ashishkharade95@gmail.com |

| 9 | aishwary mohite | female | 1995-03-14 | 2015-05-16 | aishwarymahote95@gmail.com |

| 10 | shubham patil | male | 1991-03-14 | 2010-05-16 | shubhampatil95@gmail.com |

| 11 | priya kakde | female | 1996-03-24 | 2016-09-11 | priyakakde95@gmail.com |

| 12 | rohan nikam | male | 1996-01-27 | 2012-12-01 | rohannikam95@gmail.com |

| 13 | snehal ingle | female | 1996-11-07 | 2012-12-21 | snehalingle95@gmail.com |

| 14 | abhishek paiwan | male | 1996-11-17 | 2011-12-01 | abhishekpaiwan95@gmail.com |

| 15 | piyu chandre | female | 1993-11-17 | 2011-02-01 | piyuchandre95@gmail.com |

| 16 | sham bhujbal | male | 1985-01-03 | 2011-12-11 | shambhujbal95@gmail.com |

| 17 | shivani khose | female | 1996-03-28 | 2017-01-29 | shivanikhose95@gmail.com |

| 18 | harshal farande | male | 1990-01-08 | 2015-11-09 | harshalfarande95@gmail.com |

| 19 | shailaja jagtap | female | 1995-11-18 | 2016-12-19 | shailajajagtap95@gmail.com |

| 20 | vinayak hulwan | male | 1998-01-08 | 2017-01-19 | vinayakhulwan95@gmail.com |

| 21 | vidya hulwan | female | 1995-03-01 | 2017-01-16 | vidyahulwan95@gmail.com |

| 22 | manoj andhare | male | 1989-12-07 | 2015-11-16 | manojandhare95@gmail.com |

| 23 | kshma chaughule | female | 1992-07-12 | 2016-01-14 | kshmachaughulee95@gmail.com |

| 24 | kalpesh shinde | male | 1993-07-27 | 2016-11-01 | kalpeshshinde95@gmail.com |

| 25 | mayuri shinde | female | 1995-09-02 | 2017-01-01 | mayurishinde95@gmail.com |

| 26 | mohasin mulla | male | 1995-11-09 | 2011-11-01 | mohasinmulla95@gmail.com |

| 27 | shubhangi dhede | female | 1996-11-09 | 2015-01-01 | shubhangidhede95@gmail.com |

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

27 rows in set (0.00 sec)

mysql> select \* from Departments;

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

| D\_id | D\_name |

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

| 1 | HR |

| 2 | IT |

| 3 | SALES |

| 4 | ADMIN |

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

4 rows in set (0.00 sec)

mysql> select \* from Streams;

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

| S\_id | S\_name |

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

| 1 | technical |

| 2 | delivery |

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

2 rows in set (0.00 sec)

mysql> select \* from Roles;

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

| R\_id | Role |

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

| 1 | software engineer |

| 2 | senior software engineer |

| 3 | tech lead |

| 4 | project manager |

| 5 | delivery head |

| 6 | principal engineer |

| 7 | senior principal engineer |

| 8 | CTO |

| 9 | CCO |

| 10 | CEO |

| 11 | Senior HR Executive |

| 12 | HR Executive |

| 13 | Head of HR Operation |

| 14 | Admin Head |

| 15 | Salesman |

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

15 rows in set (0.00 sec)

mysql> select \* from Dept\_Stream;

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

| D\_id | S\_id |

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

| 1 | NULL |

| 2 | 1 |

| 2 | 2 |

| 3 | NULL |

| 4 | NULL |

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

5 rows in set (0.00 sec)

mysql> SELECT \* FROM RSD;

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

| RSD\_id | D\_id | S\_id | R\_id |

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

| 1 | 1 | NULL | 11 |

| 2 | 1 | NULL | 12 |

| 3 | 1 | NULL | 13 |

| 4 | 2 | 1 | 1 |

| 5 | 2 | 1 | 2 |

| 6 | 2 | 1 | 3 |

| 7 | 2 | 1 | 6 |

| 8 | 2 | 1 | 7 |

| 9 | 2 | 2 | 1 |

| 10 | 2 | 2 | 2 |

| 11 | 2 | 2 | 3 |

| 12 | 2 | 2 | 4 |

| 13 | 2 | 2 | 5 |

| 14 | 3 | NULL | 15 |

| 15 | 4 | NULL | 14 |

| 16 | 2 | 1 | 8 |

| 17 | 3 | NULL | 9 |

| 18 | 2 | 2 | 10 |

| 19 | 4 | NULL | 10 |

| 20 | 1 | NULL | 10 |

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

20 rows in set (0.00 sec)

mysql> select \* from Emp\_Role;

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

| E\_id | RSD\_id |

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

| 1 | 10 |

| 2 | 9 |

| 3 | 6 |

| 4 | 12 |

| 5 | 9 |

| 6 | 9 |

| 7 | 9 |

| 8 | 9 |

| 9 | 9 |

| 10 | 9 |

| 11 | 10 |

| 12 | 10 |

| 13 | 12 |

| 14 | 13 |

| 15 | 2 |

| 16 | 2 |

| 17 | 2 |

| 18 | 1 |

| 19 | 3 |

| 20 | 5 |

| 21 | 5 |

| 22 | 5 |

| 23 | 6 |

| 24 | 7 |

| 25 | 7 |

| 26 | 8 |

| 27 | 8 |

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

27 rows in set (0.00 sec)

2. Create select script to retrieve employee names, email and designation by department. in a department, the names should be alphabetically sorted.

->

mysql> select a.E\_name,a.E\_email,e.D\_name,d.Role from Employees a join Emp\_Role b on (a.E\_id=b.E\_id) join RSD c on (b.RSD\_id=c.RSD\_id) join Roles d on (d.R\_id=c.R\_id) join Departments e on (e.D\_id=c.D\_id) order by a.E\_name;

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

| E\_name | E\_email | D\_name | Role |

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

| abhishek paiwan | abhishekpaiwan95@gmail.com | IT | delivery head |

| Adam Smith | adam.smith@testcompany.com | IT | senior software engineer |

| aditi urunkar | aditiurunkar95@gmail.com | IT | software engineer |

| aishwary mohite | aishwarymahote95@gmail.com | IT | software engineer |

| ashish kharade | ashishkharade95@gmail.com | IT | software engineer |

| Augustine Smith | augustine.smith@testcompany.com | IT | project manager |

| Barry Jones | barry.jones@testcompany.com | IT | software engineer |

| harshal farande | harshalfarande95@gmail.com | HR | Senior HR Executive |

| kalpesh shinde | kalpeshshinde95@gmail.com | IT | principal engineer |

| Karma Lee | karma.lee@testcompany.com | IT | tech lead |

| koustubh desai | koustubhdesai95@gmail.com | IT | software engineer |

| kshma chaughule | kshmachaughulee95@gmail.com | IT | tech lead |

| manoj andhare | manojandhare95@gmail.com | IT | senior software engineer |

| mayuri shinde | mayurishinde95@gmail.com | IT | principal engineer |

| mohasin mulla | mohasinmulla95@gmail.com | IT | senior principal engineer |

| piyu chandre | piyuchandre95@gmail.com | HR | HR Executive |

| pritee chandre | priteechandre95@gmail.com | IT | software engineer |

| priya kakde | priyakakde95@gmail.com | IT | senior software engineer |

| rohan nikam | rohannikam95@gmail.com | IT | senior software engineer |

| shailaja jagtap | shailajajagtap95@gmail.com | HR | Head of HR Operation |

| sham bhujbal | shambhujbal95@gmail.com | HR | HR Executive |

| shivani khose | shivanikhose95@gmail.com | HR | HR Executive |

| shubham patil | shubhampatil95@gmail.com | IT | software engineer |

| shubhangi dhede | shubhangidhede95@gmail.com | IT | senior principal engineer |

| snehal ingle | snehalingle95@gmail.com | IT | project manager |

| vidya hulwan | vidyahulwan95@gmail.com | IT | senior software engineer |

| vinayak hulwan | vinayakhulwan95@gmail.com | IT | senior software engineer |

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

27 rows in set (0.00 sec)

3. Create select script to retrieve employee name, email of all the software engineers from technical and delivery stream

->

mysql> select a.E\_name,a.E\_email from Employees a join Emp\_Role b on (a.E\_id=b.E\_id) join RSD c on (b.RSD\_id=c.RSD\_id) join Roles d on (d.R\_id=c.R\_id) join Departments e on (e.D\_id=c.D\_id) left outer join Streams f on (f.S\_id=c.S\_id) where ( f.S\_name='technical' or f.S\_name='delivery') and d.Role='software engineer';

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

| E\_name | E\_email |

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

| Barry Jones | barry.jones@testcompany.com |

| aditi urunkar | aditiurunkar95@gmail.com |

| koustubh desai | koustubhdesai95@gmail.com |

| pritee chandre | priteechandre95@gmail.com |

| ashish kharade | ashishkharade95@gmail.com |

| aishwary mohite | aishwarymahote95@gmail.com |

| shubham patil | shubhampatil95@gmail.com |

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

7 rows in set (0.00 sec)

4. Create select script to retrieve employee name, age, email and designation of all the employees having birth day in January 2017

mysql> select a.E\_name,a.E\_email,d.Role,a.E\_DOB from Employees a join Emp\_Role b on (a.E\_id=b.E\_id) join RSD c on (b.RSD\_id=c.RSD\_id) join Roles d on (d.R\_id=c.R\_id) where extract(month from a.E\_DOB)=01;

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

| E\_name | E\_email | Role | E\_DOB |

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

| Adam Smith | adam.smith@testcompany.com | senior software engineer | 1990-01-01 |

| rohan nikam | rohannikam95@gmail.com | senior software engineer | 1996-01-27 |

| sham bhujbal | shambhujbal95@gmail.com | HR Executive | 1985-01-03 |

| harshal farande | harshalfarande95@gmail.com | Senior HR Executive | 1990-01-08 |

| vinayak hulwan | vinayakhulwan95@gmail.com | senior software engineer | 1998-01-08 |

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

5 rows in set (0.00 sec)

5. Create select script to retrieve all employee data for employees having more than 3 years of experience in Cuelogic

mysql> select a.\*,e.D\_name,f.S\_name,d.Role from Employees a join Emp\_Role b on (a.E\_id=b.E\_id) join RSD c on (b.RSD\_id=c.RSD\_id) join Roles d on (d.R\_id=c.R\_id) join Departments e on (e.D\_id=c.D\_id) left outer join Streams f on (f.S\_id=c.S\_id) where (DATEDIFF(CURDATE(),a.E\_DOJ)/365.25)>3;

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

| E\_id | E\_name | E\_gender | E\_DOB | E\_DOJ | E\_email | D\_name | S\_name | Role |

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

| 3 | Karma Lee | female | 1987-10-11 | 2013-01-01 | karma.lee@testcompany.com | IT | technical | tech lead |

| 26 | mohasin mulla | male | 1995-11-09 | 2011-11-01 | mohasinmulla95@gmail.com | IT | technical | senior principal engineer |

| 1 | Adam Smith | male | 1990-01-01 | 2014-01-01 | adam.smith@testcompany.com | IT | delivery | senior software engineer |

| 4 | Augustine Smith | male | 1983-04-01 | 2010-01-01 | augustine.smith@testcompany.com | IT | delivery | project manager |

| 5 | aditi urunkar | female | 1985-04-21 | 2010-03-11 | aditiurunkar95@gmail.com | IT | delivery | software engineer |

| 6 | koustubh desai | male | 1980-04-01 | 2013-09-01 | koustubhdesai95@gmail.com | IT | delivery | software engineer |

| 10 | shubham patil | male | 1991-03-14 | 2010-05-16 | shubhampatil95@gmail.com | IT | delivery | software engineer |

| 12 | rohan nikam | male | 1996-01-27 | 2012-12-01 | rohannikam95@gmail.com | IT | delivery | senior software engineer |

| 13 | snehal ingle | female | 1996-11-07 | 2012-12-21 | snehalingle95@gmail.com | IT | delivery | project manager |

| 14 | abhishek paiwan | male | 1996-11-17 | 2011-12-01 | abhishekpaiwan95@gmail.com | IT | delivery | delivery head |

| 15 | piyu chandre | female | 1993-11-17 | 2011-02-01 | piyuchandre95@gmail.com | HR | NULL | HR Executive |

| 16 | sham bhujbal | male | 1985-01-03 | 2011-12-11 | shambhujbal95@gmail.com | HR | NULL | HR Executive |

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

12 rows in set (0.00 sec)

6. Create select script to retrieve the youngest employee in each department

mysql> select a.E\_name,a.E\_email,e.D\_name,max(a.E\_DOB) from Employees a join Emp\_Role b on (a.E\_id=b.E\_id) join RSD c on (b.RSD\_id=c.RSD\_id) join Roles d on (d.R\_id=c.R\_id) join Departments e on(e.D\_id=c.D\_id) group by e.D\_name;

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

| E\_name | E\_email | D\_name | max(a.E\_DOB) |

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

| piyu chandre | piyuchandre95@gmail.com | HR | 1996-03-28 |

| Adam Smith | adam.smith@testcompany.com | IT | 1998-01-08 |

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

2 rows in set (0.00 sec)

7. Create select script to retrieve the oldest employee in each department

mysql> select a.E\_name,a.E\_email,e.D\_name,min(a.E\_DOB) from Employees a join Emp\_Role b on (a.E\_id=b.E\_id) join RSD c on (b.RSD\_id=c.RSD\_id) join Roles d on (d.R\_id=c.R\_id) join Departments e on(e.D\_id=c.D\_id) group by e.D\_name;

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

| E\_name | E\_email | D\_name | min(a.E\_DOB) |

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

| piyu chandre | piyuchandre95@gmail.com | HR | 1985-01-03 |

| Adam Smith | adam.smith@testcompany.com | IT | 1980-04-01 |

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

2 rows in set (0.00 sec)

NOTE: plz tell me that ,how the different joins are works for 5 tables?