mysql> select \* from employees;

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

| empid | empname | position | department | salary | Hiredate |

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

| 101 | Raja | Clerk | Administration | 12500.56 | 2010-01-25 |

| 102 | Mani | Accountant | Finance | 8000.75 | 2010-02-15 |

| 103 | Hariharan | Software Engineer | IT | 15000.25 | 2012-05-07 |

| 104 | Michal | Manager | Management | 18000.55 | 2014-08-18 |

| 105 | Pooja | Editor | Multimedia | 14000.35 | 2015-09-21 |

| 106 | Saravana | Marketing Executive | Marketing | 20000.25 | 2018-06-22 |

| 107 | Dhanzil | Clerk | Administration | 16500.56 | 2017-05-24 |

| 107 | Manoj | Sales person | Marketing | 12000.75 | 2016-05-22 |

| 108 | Madhan | IT Admin | IT | 18000.24 | 2018-11-22 |

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

9 rows in set (0.00 sec)

mysql> select empname,position,department,max(salary) from employees group by empname order by empname limit 1 offset 7;

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

| empname | position | department | max(salary) |

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

| Saravana | Marketing Executive | Marketing | 20000.25 |

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

mysql> select empname,position,department,min(hiredate) from employees group by hiredate order by hiredate limit 1 offset 0;

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

| empname | position | department | min(hiredate) |

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

| Raja | Clerk | Administration | 2010-01-25 |

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

1 row in set (0.00 sec)

mysql> select \* from employees where department='Accounting';

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

| empid | empname | position | department | salary | Hiredate |

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

| 102 | Mani | Accountant | Accounting | 8000.75 | 2010-02-15 |

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

1 row in set (0.00 sec)

mysql> select empname,position,department,max(salary) from employees group by empname order by salary;

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

| empname | position | department | max(salary) |

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

| Mani | Accountant | Accounting | 8000.75 |

| Manoj | Sales person | Marketing | 12000.75 |

| Raja | Clerk | Administration | 12500.56 |

| Pooja | Editor | Multimedia | 14000.35 |

| Hariharan | Software Engineer | IT | 15000.25 |

| Dhanzil | Clerk | Administration | 16500.56 |

| Mohan | Clerk | Administration | 17500.56 |

| Madhan | IT Admin | IT | 18000.24 |

| Michal | Manager | Management | 18000.55 |

| Saravana | Marketing Executive | Marketing | 20000.25 |

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

mysql> select \* from employees where position='accountant';

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

| empid | empname | position | department | salary | Hiredate |

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

| 102 | Mani | Accountant | Accounting | 8000.75 | 2010-02-15 |

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

1 row in set (0.00 sec)

mysql> create table SAILOR(SID int PRIMARY KEY,NAME varchar(15),DOB date,GENDER char(6));

Query OK, 0 rows affected (0.03 sec)

mysql> desc SAILOR;

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

| Field | Type | Null | Key | Default | Extra |

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

| SID | int | NO | PRI | NULL | |

| NAME | varchar(15) | YES | | NULL | |

| DOB | date | YES | | NULL | |

| GENDER | char(6) | YES | | NULL | |

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

4 rows in set (0.00 sec)

mysql> create table BOAT(BID int primary key,BTYPE char(3),BNAME varchar(10) unique,COLOR varchar(10));

Query OK, 0 rows affected (0.05 sec)

mysql> desc BOAT;

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

| Field | Type | Null | Key | Default | Extra |

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

| BID | int | NO | PRI | NULL | |

| BTYPE | char(3) | YES | | NULL | |

| BNAME | varchar(10) | YES | UNI | NULL | |

| COLOR | varchar(10) | YES | | NULL | |

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

4 rows in set (0.01 sec)

mysql> create table SAILS(SID int,BID int,DOT date,SHIFT char(3),foreign key(SID) references SAILOR(SID),foreign key(BID) references BOAT(BID));

Query OK, 0 rows affected (0.05 sec)

mysql> desc SAILS;

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

| Field | Type | Null | Key | Default | Extra |

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

| SID | int | YES | MUL | NULL | |

| BID | int | YES | MUL | NULL | |

| DOT | date | YES | | NULL | |

| SHIFT | char(3) | YES | | NULL | |

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

4 rows in set (0.00 sec)

mysql> insert into SAILOR(SID,NAME,DOB,GENDER) values (11,'Hari','1995-09-23','Male'),(12,'Jana','1988-08-04','Male'),(13,'Michal','1998-07-22','Male'),(14,'Ashwin','2001-11-13','Male');

Query OK, 4 rows affected (0.01 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> insert into BOAT(BID,BTYPE,BNAME,COLOR) values(101,'D','Weaver','Black'),(102,'S','Oasis','White'),(103,'S','Adagio','Grey'),(104,'D','Atlant','Gold');

Query OK, 4 rows affected (0.01 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> insert into SAILS(SID,BID,DOT,SHIFT) values (11,102,'2022-08-22','AN'),(12,101,'2022-09-01','AN'),(13,103,'2022-09-22','FN'),(11,102,'2022-11-02','AN');

Query OK, 4 rows affected (0.01 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> select \* from SAILS inner join SAILOR on SAILS.SID=SAILOR.SID inner join BOAT on SAILS.BID=BOAT.BID;

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

| SID | BID | DOT | SHIFT | SID | NAME | DOB | GENDER | BID | BTYPE | BNAME | COLOR |

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

| 11 | 102 | 2022-08-22 | AN | 11 | Hari | 1995-09-23 | Male | 102 | S | Oasis | White |

| 12 | 101 | 2022-09-01 | AN | 12 | Jana | 1988-08-04 | Male | 101 | D | Weaver | Black |

| 13 | 103 | 2022-09-22 | FN | 13 | Michal | 1998-07-22 | Male | 103 | S | Adagio | Grey |

| 11 | 102 | 2022-11-02 | AN | 11 | Hari | 1995-09-23 | Male | 102 | S | Oasis | White |

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

4 rows in set (0.00 sec)

mysql> select SAILS.SID,SAILS.BID,SAILOR.NAME,SAILOR.DOB,SAILOR.GENDER,SAILS.DOT,BOAT.BNAME,BOAT.BTYPE,BOAT.COLOR from SAILS inner join SAILOR

on SAILS.SID=SAILOR.SID inner join BOAT on SAILS.BID=BOAT.BID;

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

| SID | BID | NAME | DOB | GENDER | DOT | BNAME | BTYPE | COLOR |

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

| 11 | 102 | Hari | 1995-09-23 | Male | 2022-08-22 | Oasis | S | White |

| 12 | 101 | Jana | 1988-08-04 | Male | 2022-09-01 | Weaver | D | Black |

| 13 | 103 | Michal | 1998-07-22 | Male | 2022-09-22 | Adagio | S | Grey |

| 11 | 102 | Hari | 1995-09-23 | Male | 2022-11-02 | Oasis | S | White |

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

4 rows in set (0.00 sec)