NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

Cachar, Assam

B.Tech. Vth Sem

Subject Code: CS-312

Subject Name: Database Management System

Submitted By:

Name : Subhojit Ghimire

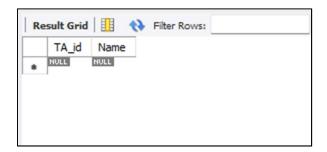
Sch. Id. : 1912160

Branch : CSE - B

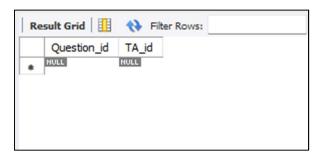
CONNECTION: 1912160_CS312

CREATE SCHEMA `assignment6`;

1. ta_table

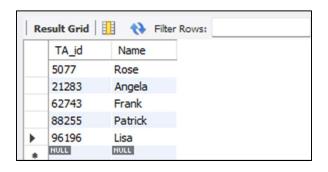


2. question_table



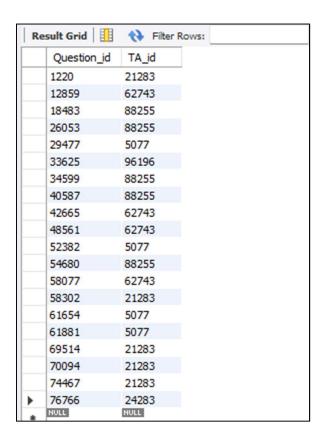
TEST CASE 1

1. ta_table



INSERT INTO `assignment6`.`ta_table` (`TA_id`, `Name`) VALUES ('5077', 'Rose');
INSERT INTO `assignment6`.`ta_table` (`TA_id`, `Name`) VALUES ('21283', 'Angela');
INSERT INTO `assignment6`.`ta_table` (`TA_id`, `Name`) VALUES ('62743', 'Frank');
INSERT INTO `assignment6`.`ta_table` (`TA_id`, `Name`) VALUES ('88255', 'Patrick');
INSERT INTO `assignment6`.`ta_table` (`TA_id`, `Name`) VALUES ('96196', 'Lisa');

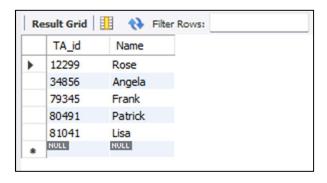
2. question_table



```
INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('61654', '5077');
INSERT INTO 'assignment6'. 'question_table' ('Question_id', 'TA_id') VALUES ('58302', '21283');
INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('40587', '88255');
INSERT INTO `assignment6`. `question_table` (`Question_id`, `TA_id`) VALUES ('29477', '5077');
INSERT INTO `assignment6`. `question_table` (`Question_id`, `TA_id`) VALUES ('1220', '21283');
INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('69514', '21283');
INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('48561', '62743');
INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('58077', '62743');
INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('18483', '88255');
INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('76766', '24283');
INSERT INTO `assignment6`. `question_table` (`Question_id`, `TA_id`) VALUES ('52382', '5077');
INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('74467', '21283');
INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('33625', '96196');
INSERT INTO 'assignment6'. 'question_table' ('Question_id', 'TA_id') VALUES ('26053', '88255');
INSERT INTO `assignment6`.`question table` (`Question id`, `TA id`) VALUES ('42665', '62743');
INSERT INTO `assignment6`.`question table` (`Question id`, `TA id`) VALUES ('12859', '62743');
INSERT INTO `assignment6`.`question table` (`Question id`, `TA id`) VALUES ('70094', '21283');
INSERT INTO `assignment6`.`question table` (`Question id`, `TA id`) VALUES ('34599', '88255');
INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('54680', '88255');
INSERT INTO 'assignment6'. 'question table' ('Question id', 'TA id') VALUES ('61881', '5077');
```

TEST CASE 2

1. ta_table



DELETE FROM `assignment6`.`ta_table` WHERE (`TA_id` > '0');

INSERT INTO `assignment6`.`ta_table` (`TA_id`, `Name`) VALUES ('12299', 'Rose');

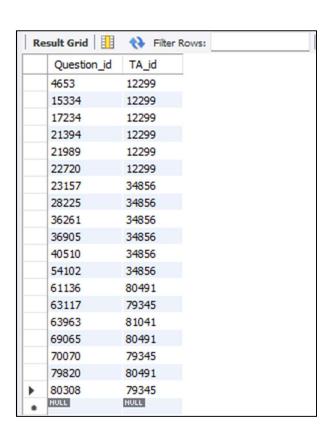
INSERT INTO `assignment6`.`ta_table` (`TA_id`, `Name`) VALUES ('34856', 'Angela');

INSERT INTO `assignment6`.`ta_table` (`TA_id`, `Name`) VALUES ('79345', 'Frank');

INSERT INTO `assignment6`.`ta_table` (`TA_id`, `Name`) VALUES ('80491', 'Patrick');

INSERT INTO `assignment6`.`ta_table` (`TA_id`, `Name`) VALUES ('81041', 'Lisa');

2. question_table



DELETE FROM `assignment6`.`question_table` WHERE (`Question_id` > '0'); INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('63963', '81041'); INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('63117', '79345'); INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('28225', '34856'); INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('21989', '12299'); INSERT INTO `assignment6`. `question_table` (`Question_id`, `TA_id`) VALUES ('4653', '12299'); INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('70070', '79345'); INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('36905', '34856'); INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('61136', '80491'); INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('17234', '12299'); INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('80308', '79345'); INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('40510', '34856'); INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('79820', '80491'); INSERT INTO `assignment6`.`question table` (`Question id`, `TA id`) VALUES ('22720', '12299'); INSERT INTO `assignment6`.`question table` (`Question id`, `TA id`) VALUES ('21394', '12299'); INSERT INTO `assignment6`.`question table` (`Question id`, `TA id`) VALUES ('36261', '34856'); INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('15334', '12299'); INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('23157', '34856'); INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('54102', '34856'); INSERT INTO `assignment6`.`question_table` (`Question_id`, `TA_id`) VALUES ('69065', '80491'); Write a query to print the Question_id, name, and the total number of questions created by each Teaching assistant(TA). Arrange results by the total number of questions in descending order. If more than one TA's created the same number of questions, then sort the result by TA_id. If more than one TA's created the same number of questions and the count is less than the maximum number of questions created, then exclude those TA's from the result.

```
→ SELECT q.TA_id, t.name, COUNT(q.Question_id) AS cnt
FROM ta_table AS t

JOIN question_table AS q ON t.TA_id = q.TA_id

GROUP BY q.TA_id, t.name

HAVING cnt = (

SELECT COUNT(q1.Question_id)

FROM question_table AS q1

GROUP BY q1.TA_id

ORDER BY COUNT(*) DESC LIMIT 1
)

OR cnt NOT IN (

SELECT COUNT(q2.Question_id) FROM question_table AS q2

GROUP BY q2.TA_id

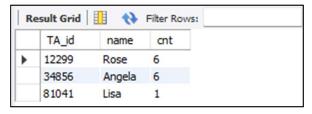
HAVING q2.TA_id <> q.TA_id
)

ORDER BY cnt DESC, q.TA_id;
```

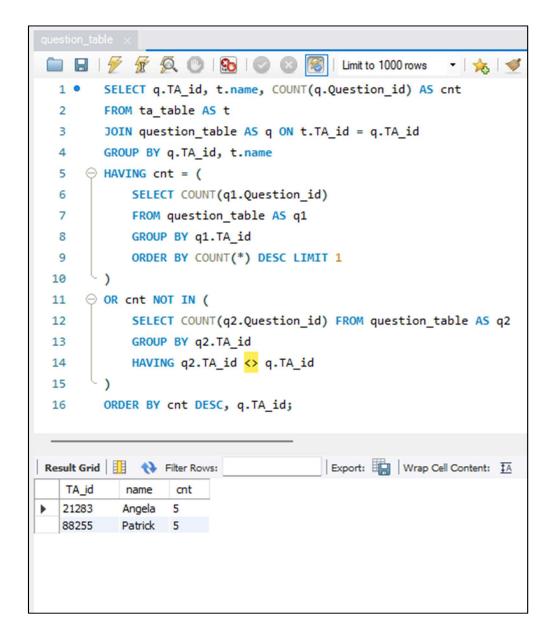
RESULT: TEST CASE 1



RESULT: TEST CASE 2



TEST CASE 1 OUTPUT



TEST CASE 2 OUTPUT

