

**DATABASE SYSTEMS AND WEB
PROJECT BASED LEARNING**



Case Study Title: Student Placement Database

Abstract

In the following case study a placement cell is maintaining a database of the students from different colleges, placed in various companies.

There are 5 tables namely; Student, Company, College, Placement, College_company containing the information regarding the colleges, companies and the students.

Through this case study we can conclude how many students are placed from which college in which company more clearly by viewing the following tables and writing respective queries to find the details for the same.

Introduction

Being an engineering student in the pre-final year, having a basic knowledge of the placement cell of colleges to understand the big picture of placements as a whole, we are making this database of the placement cell containing the details regarding the placement of students in various companies through simple tables such as student, company, college, placement, college_comapany.

With this we would be having a proper record and numbers of the placement done in different companies with their CTC mentioned in the table. This will make it easy to understand the companies various CTC being offered to how many students, number of companies visiting the campus of college and number of students taking and getting placed through college TnP cell. As we all know, placement season is near and this database would help in different fields by having proper data of the placements such as college ranking, On campus placement records etc.

Schema details

A placement cell maintains a database of the students placed in various companies. They maintain the student details in a table called **Student**, containing their:

student_id: integer,

student_name:String,

college_id: integer,

The student_id can be used to uniquely identify any student.

The company details are stored in the **Company** table comprising of

company_id: integer,

company_name: string,

avg_sal: decimal(32,2).

The company_id serves as a primary key for each company and the avg_sal records the average salary offered.

The college details are stored in a table called **College** containing:

college_id:integer,

college_name: string,

city: string.

The **Placement** table is a relationship entity with the following details:

student_id: integer,

company_id: integer,

CTC: decimal(32,2).

The **college_company** table is relationship entity with the following details:

college_id: integer,

company_id: integer.

ERD Diagram

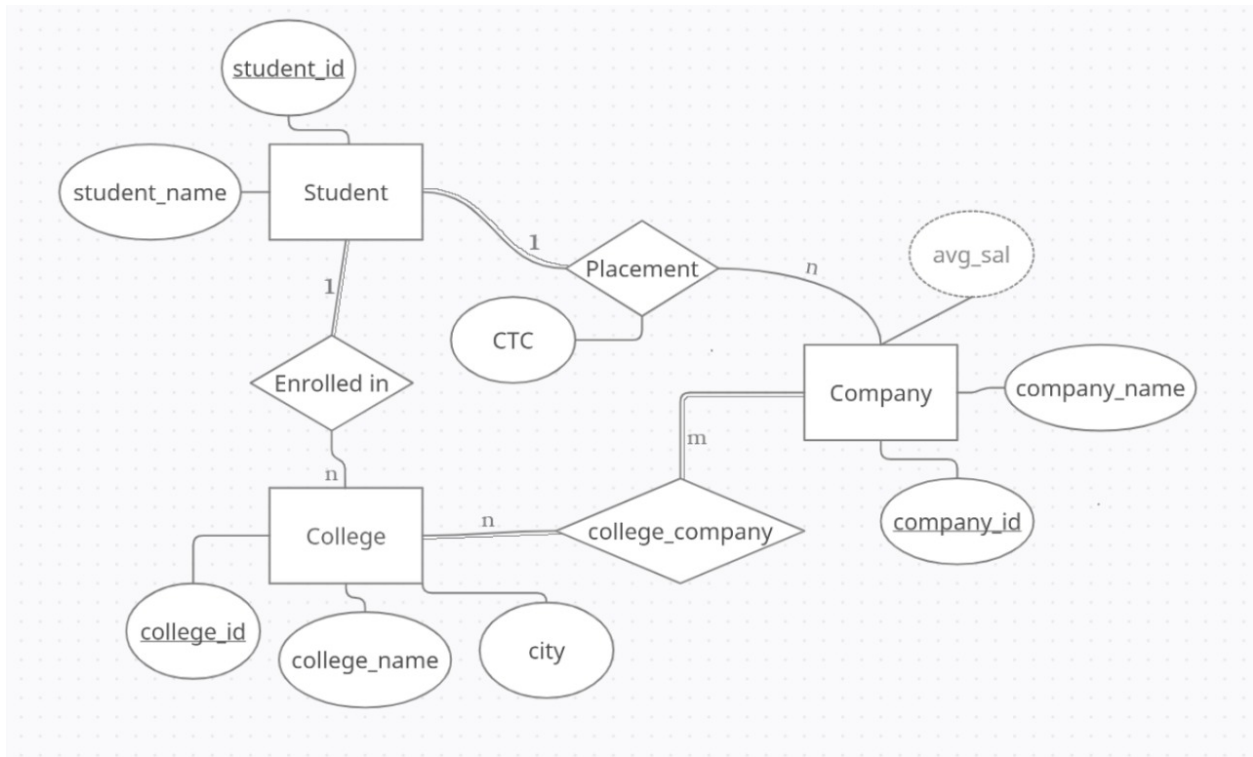


Table Description

```
CREATE TABLE Company(  
    company_id INT NOT NULL,  
    company_name VARCHAR(100),  
    avg_sal DECIMAL(32, 2),  
    PRIMARY KEY(company_id)  
);
```

```
CREATE TABLE College(  
    college_id INT NOT NULL,  
    college_name VARCHAR(100),  
    city VARCHAR(50),  
    PRIMARY KEY (college_id)  
);
```

```
CREATE TABLE Student(  
    student_id INT NOT NULL UNIQUE,  
    student_name VARCHAR(50),  
    college_id INT,  
    FOREIGN KEY(college_id) REFERENCES College(college_id),  
    PRIMARY KEY (student_id)  
);
```

```
CREATE TABLE Placement(  
    student_id INT NOT NULL,  
    company_id INT NOT NULL,  
    CTC DECIMAL(32, 2) NOT NULL,  
    FOREIGN KEY(company_id) REFERENCES Company(company_id),  
    FOREIGN KEY(student_id) REFERENCES Student(student_id),  
    PRIMARY KEY(student_id, company_id)  
);
```

```
CREATE TABLE college_company (  
    college_id INT NOT NULL,
```

```

company_id INT NOT NULL,
FOREIGN KEY (college_id) REFERENCES College(college_id),
FOREIGN KEY (company_id) REFERENCES company(company_id),
PRIMARY KEY(college_id, company_id)
);

```

Schema Details

A placement cell maintains a database of the students placed in various companies. They maintain the student details in a table called **Student**, containing their:

student_id	Integer	Primary Key
student_name	String	-
college_id	Integer	Foreign Key

The company details are stored in the **Company** table comprising of

company_id	Integer	Primary Key
company_name	String	-
avg_sal	Decimal	-

The college details are stored in a table called **College** containing:

college_id	integer	Primary key
college_name	String	-
city	String	-

The **placement** details are stored in a table as shown:

student_id	Integer	Primary Key, Foreign Key
company_id	Integer	Primary Key, Foreign Key
CTC	Decimal	-

This **college_comapny** table details are shown below:

college_id	Integer	Primary Key, Foreign Key
company_id	Integer	Primary Key, Foreign Key

Queries

Create table queries:

```
CREATE TABLE Company(  
    company_id INT NOT NULL,  
    company_name VARCHAR(100),  
    avg_sal DECIMAL(32, 2),  
    PRIMARY KEY(company_id)  
);
```

```
CREATE TABLE College(  
    college_id INT NOT NULL,  
    college_name VARCHAR(100),  
    city VARCHAR(50),  
    PRIMARY KEY (college_id)  
);
```

```
CREATE TABLE Student(  
    student_id INT NOT NULL UNIQUE,  
    student_name VARCHAR(50),  
    college_id INT,  
    FOREIGN KEY(college_id) REFERENCES College(college_id),  
    PRIMARY KEY (student_id)  
);
```

```
CREATE TABLE Placement(  
    student_id INT NOT NULL,  
    company_id INT NOT NULL,  
    CTC DECIMAL(32, 2) NOT NULL,  
    FOREIGN KEY(company_id) REFERENCES Company(company_id),  
    FOREIGN KEY(student_id) REFERENCES Student(student_id),  
    PRIMARY KEY(student_id, company_id)  
);
```

```
CREATE TABLE college_company (  
    college_id INT NOT NULL,  
    company_id INT NOT NULL,  
    FOREIGN KEY (college_id) REFERENCES College(college_id),  
    FOREIGN KEY (company_id) REFERENCES company(company_id),  
    PRIMARY KEY(college_id, company_id)  
);
```

Triggers:

```
DROP TRIGGER IF EXISTS avg_sal_insert;  
DROP TRIGGER IF EXISTS avg_sal_delete;  
DROP TRIGGER IF EXISTS college_company_add;  
DROP TRIGGER IF EXISTS college_company_delete;
```

```
DELIMITER $$
```

```
CREATE TRIGGER avg_sal_insert
```



```
AFTER INSERT
ON placement
FOR EACH ROW
BEGIN
    UPDATE company
    SET company.avg_sal := (
        SELECT AVG(placement.CTC)
        FROM placement
        WHERE NEW.company_id = placement.company_id
    )
    WHERE company.company_id = NEW.company_id;
END $$
```

```
CREATE TRIGGER avg_sal_delete
AFTER DELETE
ON placement
FOR EACH ROW
BEGIN
    UPDATE company
    SET company.avg_sal := (
        SELECT AVG(placement.CTC)
        FROM placement
        WHERE OLD.company_id = placement.company_id
    )
    WHERE company.company_id = OLD.company_id;
END $$
```

```
DELIMITER $$
```

```
CREATE TRIGGER college_company_add
AFTER INSERT
ON placement
FOR EACH ROW
BEGIN
```

```

DECLARE college_id_student INT;

SET college_id_student := (SELECT college_id
                           FROM student
                           WHERE student.student_id = NEW.student_id);
IF ( SELECT NOT EXISTS (
      SELECT college_id
      FROM college_company
      WHERE college_company.company_id = NEW.company_id
      AND college_id = college_id_student
    )
  ) THEN
  INSERT INTO
    college_company
  VALUES
    (college_id_student, NEW.company_id);
END IF;

END $$

DELIMITER $$

```

```

CREATE TRIGGER college_company_delete
AFTER DELETE
ON placement
FOR EACH ROW
BEGIN
  DECLARE college_id_student INT;

  SET college_id_student := (SELECT college_id
                             FROM student
                             WHERE student.student_id = OLD.student_id);
  IF ( SELECT EXISTS (
        SELECT college_id

```

```
FROM college_company
WHERE college_company.company_id = OLD.company_id
AND college_id = college_id_student
)
) THEN
DELETE
FROM
    college_company
WHERE
    college_company.company_id = OLD.company_id
    AND college_id = college_id_student;
END IF;
END $$
```

DELIMITER ;

Insert values:

```
INSERT INTO
    Company (company_id, company_name)
VALUES
    (1, 'XORIAN'),
    (2, 'QUINNOX'),
    (3, 'INDUS VALLEY'),
    (4, 'IGATE'),
    (5, 'HEXAWARE TECHNOLOGIES'),
    (6, 'MAQ SOFTWARE'),
    (7, 'DIRECTI'),
    (8, 'ATOS'),
    (9, 'MPHASIS'),
    (10, 'WIPRO'),
    (11, 'NEOSOFT TECHNOLOGIES'),
    (12, 'INFOSYS'),
    (13, 'RAVE TECHNOLOGIES'),
```

(14, 'TECH MAHINDRA'),
(15, 'NUCSOFT');

INSERT INTO College VALUES

(1001, 'XAVIER INSTITUTE OF ENGINEERING', 'MUMBAI'),
(1002, 'INDIRA COLLEGE OF ENGINEERING AND MANAGEMENT', 'PUNE'),
(1003, 'VISHWAKARMA INSTITUTE OF TECHNOLOGY', 'THANE'),
(1004, 'PILLAI COLLEGE OF ENGINEERING', 'NAVI MUMBAI'),
(1005, 'THAKUR COLLEGE OF ENGINEERING AND TECHNOLOGY', 'MUMBAI'),
(1006, 'THADOMAL SHAHANI ENGINEERING COLLEGE', 'MUMBAI'),
(1007, 'LOKMANYA TILAK COLLEGE OF ENGINEERING', 'NAVI MUMBAI'),
(1008, 'MIT COLLEGE OF ENGINEERING', 'PUNE'),
(1009, 'PUNE INSTITUTE OF COMPUTER TECHNOLOGY', 'PUNE'),
(1010, 'TRINITY COLLEGE OF ENGINEERING AND RESEARCH', 'PUNE');

INSERT INTO Student VALUES

(1910, 'RIA SINGH', 1001),
(1920, 'SHIVANGI GUPTA', 1001),
(2098, 'RITU SINGH', 1002),
(2100, 'SHLOK GUPTA', 1002),
(3120, 'RITU KUMAR', 1002),
(4562, 'AAKANSHA AGARWAL', 1003),
(2356, 'RAJ MALHOTRA', 1003),
(2344, 'BHUMI PADREKAR', 1003),
(1987, 'RAHUL GUPTA', 1004),
(1992, 'SUMIT GUPTA', 1005),
(1976, 'TUSHAR SINGH', 1005),
(1912, 'HARSH SINGH', 1005),
(1672, 'GOURAV SINGH', 1006),
(1723, 'NIKITA MITTAL', 1006),
(1623, 'ISHITA BHATIA', 1007),
(1434, 'STUTI GUPTA', 1008),

(1324, 'SURBHI VERMA', 1008),
(1999, 'ARCHIT TIWARI', 1008),
(2000, 'KARAN SHARMA', 1009),
(2001, 'ISHAAN AGARWAL', 1010),
(2002, 'YASH GUPTA', 1010);

INSERT INTO Placement VALUES

(1910, 12, 400000.00),
(1920, 12, 400000.00),
(2098, 1, 69420.00),
(2100, 2, 696969.00),
(3120, 3, 767678.00),
(2356, 4, 67898.00),
(2344, 4, 67898.00),
(1987, 5, 1899922.00),
(1992, 5, 1899922.00),
(1976, 6, 234467.00),
(1912, 6, 234467.00),
(1672, 6, 345673.00),
(1723, 7, 877722.00),
(2000, 12, 300000.00),
(2001, 12, 500000.00),
(1999, 12, 350000.00);

```
mysql> SELECT * FROM company;
```

company_id	company_name	avg_sal
1	XORIAN	69420.00
2	QUINNOX	696969.00
3	INDUS VALLEY	767678.00
4	IGATE	67898.00
5	HEXWARE TECHNOLOGIES	1899922.00
6	MAQ SOFTWARE	271535.67
7	DIRECTI	877722.00
8	ATOS	0.00
9	MPHASIS	0.00
10	WIPRO	0.00
11	NEOSOF	0.00
12	INFOSYS	390000.00
13	RAVE TECHNOLOGIES	0.00
14	TECH MAHINDRA	0.00
15	NUCSOFT	0.00

```
15 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM college;
```

college_id	college_name	city
1001	XAVIER INSTITUTE OF ENGINEERING	MUMBAI
1002	INDIRA COLLEGE OF ENGINEERING AND MANAGEMENT	PUNE
1003	VISHWAKARMA INSTITUTE OF TECHNOLOGY	THANE
1004	PILLAI COLLEGE OF ENGINEERING	NAVI MUMBAI
1005	THAKUR COLLEGE OF ENGINEERING AND TECHNOLOGY	MUMBAI
1006	THADOMAL SHAHANI ENGINEERING COLLEGE	MUMBAI
1007	LOKMANYA TILAK COLLEGE OF ENGINEERING	NAVI MUMBAI
1008	MIT COLLEGE OF ENGINEERING	PUNE
1009	PUNE INSTITUTE OF COMPUTER TECHNOLOGY	PUNE
1010	TRINITY COLLEGE OF ENGINEERING AND RESEARCH	PUNE

```
10 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM student;
```

student_id	student_name	college_id
1324	SURBHI VERMA	1008
1434	STUTI GUPTA	1008
1623	ISHITA BHATIA	1007
1672	GOURAV SINGH	1006
1723	NIKITA MITTAL	1006
1910	RIA SINGH	1001
1912	HARSH SINGH	1005
1920	SHIVANGI GUPTA	1001
1976	TUSHAR SINGH	1005
1987	RAHUL GUPTA	1004
1992	SUMIT GUPTA	1005
1999	ARCHIT TIWARI	1008
2000	KARAN SHARMA	1009
2001	ISHAAN AGARWAL	1010
2002	YASH GUPTA	1010
2098	RITU SINGH	1002
2100	SHLOK GUPTA	1002
2344	BHUMI PADREKAR	1003
2356	RAJ MALHOTRA	1003
3120	RITU KUMAR	1002
4562	AAKANSHA AGARWAL	1003

```
21 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM placement;
```

student_id	company_id	CTC
1672	6	345673.00
1723	7	877722.00
1910	12	400000.00
1912	6	234467.00
1920	12	400000.00
1976	6	234467.00
1987	5	1899922.00
1992	5	1899922.00
1999	12	350000.00
2000	12	300000.00
2001	12	500000.00
2098	1	69420.00
2100	2	696969.00
2344	4	67898.00
2356	4	67898.00
3120	3	767678.00

```
16 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM college_company;
```

college_id	company_id
1002	1
1002	2
1002	3
1003	4
1004	5
1005	5
1005	6
1006	6
1006	7
1001	12
1008	12
1009	12
1010	12

```
13 rows in set (0.00 sec)
```


Queries:

-- Number of students placed from each college

```
SELECT
    college.college_name AS `College`,
    COUNT(*) AS `Number of students placed`
FROM student JOIN college
    USING (college_id)
WHERE student.student_id IN (
    SELECT placement.student_id
    FROM placement
) GROUP BY college.college_name;
```

```
-- ) GROUP BY college.college_name,
+-----+-----+
| College                                | Number of students placed |
+-----+-----+
| THADOMAL SHAHANI ENGINEERING COLLEGE   | 2 |
| XAVIER INSTITUTE OF ENGINEERING         | 2 |
| THAKUR COLLEGE OF ENGINEERING AND TECHNOLOGY | 3 |
| PILLAI COLLEGE OF ENGINEERING          | 1 |
| MIT COLLEGE OF ENGINEERING              | 1 |
| PUNE INSTITUTE OF COMPUTER TECHNOLOGY   | 1 |
| TRINITY COLLEGE OF ENGINEERING AND RESEARCH | 1 |
| INDIRA COLLEGE OF ENGINEERING AND MANAGEMENT | 3 |
| VISHWAKARMA INSTITUTE OF TECHNOLOGY     | 2 |
+-----+-----+
9 rows in set (0.01 sec)
```

-- List of students who have not been placed

```
SELECT
    student.student_id AS `Enrollment Number`,
    student.student_name AS `Name`,
    college.college_name AS `College`
FROM
    student JOIN
```

```

        college USING(college_id)
WHERE student_id NOT IN(
    SELECT student_id
    FROM placement
);

```

Enrollment Number	Name	College
1623	ISHITA BHATIA	LOKMANYA TILAK COLLEGE OF ENGINEERING
1324	SURBHI VERMA	MIT COLLEGE OF ENGINEERING
1434	STUTI GUPTA	MIT COLLEGE OF ENGINEERING
2002	YASH GUPTA	TRINITY COLLEGE OF ENGINEERING AND RESEARCH
4562	AAKANSHA AGARWAL	VISHWAKARMA INSTITUTE OF TECHNOLOGY

5 rows in set (0.17 sec)

-- All placements formatted properly

```

SELECT
    student.student_id AS `Enrollment Number`,
    student.student_name AS `Name`,
    placement.CTC AS `CTC`,
    company_name AS `Company`,
    college.college_name AS `College`
FROM
    student JOIN
    placement USING (student_id) JOIN
    college USING (college_id) JOIN
    company USING (company_id);

```

Enrollment Number	Name	CTC	Company	College
1723	NIKITA MITTAL	877722.00	DIRECTI	THADOMAL SHAHANI ENGINEERING COLLEGE
1987	RAHUL GUPTA	1899922.00	HEXWARE TECHNOLOGIES	PILLAI COLLEGE OF ENGINEERING
1992	SUMIT GUPTA	1899922.00	HEXWARE TECHNOLOGIES	THAKUR COLLEGE OF ENGINEERING AND TECHNOLOGY
2344	BHUMI PADREKAR	67898.00	IGATE	VISHWAKARMA INSTITUTE OF TECHNOLOGY
2356	RAJ MALHOTRA	67898.00	IGATE	VISHWAKARMA INSTITUTE OF TECHNOLOGY
3120	RITU KUMAR	767678.00	INDUS VALLEY	INDIRA COLLEGE OF ENGINEERING AND MANAGEMENT
1910	RIA SINGH	400000.00	INFOSYS	XAVIER INSTITUTE OF ENGINEERING
1920	SHIVANGI GUPTA	400000.00	INFOSYS	XAVIER INSTITUTE OF ENGINEERING
1999	ARCHIT TIWARI	350000.00	INFOSYS	MIT COLLEGE OF ENGINEERING
2000	KARAN SHARMA	300000.00	INFOSYS	PUNE INSTITUTE OF COMPUTER TECHNOLOGY
2001	ISHAAN AGARWAL	500000.00	INFOSYS	TRINITY COLLEGE OF ENGINEERING AND RESEARCH
1672	GOURAV SINGH	345673.00	MAQ SOFTWARE	THADOMAL SHAHANI ENGINEERING COLLEGE
1912	HARSH SINGH	234467.00	MAQ SOFTWARE	THAKUR COLLEGE OF ENGINEERING AND TECHNOLOGY
1976	TUSHAR SINGH	234467.00	MAQ SOFTWARE	THAKUR COLLEGE OF ENGINEERING AND TECHNOLOGY
2100	SHLOK GUPTA	696969.00	QUINNOX	INDIRA COLLEGE OF ENGINEERING AND MANAGEMENT
2098	RITU SINGH	69420.00	XORIAN	INDIRA COLLEGE OF ENGINEERING AND MANAGEMENT

16 rows in set (1.00 sec)

-- Average CTC of each College

```

SELECT
    college_name AS `College`,
    FORMAT(AVG(CTC), 2) AS `Average CTC`
FROM
    student
    JOIN placement USING (student_id)
    JOIN company USING (company_id)
    JOIN college USING (college_id)
GROUP BY college_name;
```

College	Average CTC
INDIRA COLLEGE OF ENGINEERING AND MANAGEMENT	511,355.67
MIT COLLEGE OF ENGINEERING	350,000.00
PILLAI COLLEGE OF ENGINEERING	1,899,922.00
PUNE INSTITUTE OF COMPUTER TECHNOLOGY	300,000.00
THADOMAL SHAHANI ENGINEERING COLLEGE	611,697.50
THAKUR COLLEGE OF ENGINEERING AND TECHNOLOGY	789,618.67
TRINITY COLLEGE OF ENGINEERING AND RESEARCH	500,000.00
VISHWAKARMA INSTITUTE OF TECHNOLOGY	67,898.00
XAVIER INSTITUTE OF ENGINEERING	400,000.00

9 rows in set (0.05 sec)

-- Total number of students in each college

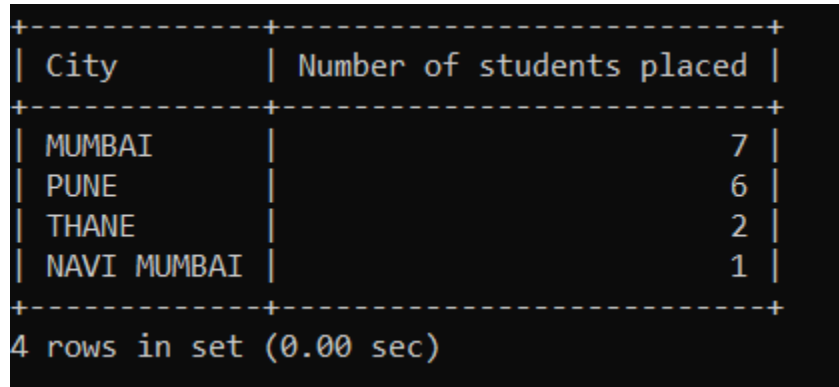
```
SELECT
    college_name AS `College`,
    COUNT(student_id) AS `Total Students`
FROM
    student JOIN college USING(college_id)
GROUP BY college_name;
```

College	Total Students
INDIRA COLLEGE OF ENGINEERING AND MANAGEMENT	3
LOKMANYA TILAK COLLEGE OF ENGINEERING	1
MIT COLLEGE OF ENGINEERING	3
PILLAI COLLEGE OF ENGINEERING	1
PUNE INSTITUTE OF COMPUTER TECHNOLOGY	1
THADOMAL SHAHANI ENGINEERING COLLEGE	2
THAKUR COLLEGE OF ENGINEERING AND TECHNOLOGY	3
TRINITY COLLEGE OF ENGINEERING AND RESEARCH	2
VISHWAKARMA INSTITUTE OF TECHNOLOGY	3
XAVIER INSTITUTE OF ENGINEERING	2

10 rows in set (0.21 sec)

-- Number of students placed in each city

```
SELECT
    college.city AS `City`,
    COUNT(*) AS `Number of students placed`
FROM student JOIN college
    USING (college_id)
WHERE student.student_id IN (
    SELECT placement.student_id
    FROM placement
) GROUP BY college.city;
```



A screenshot of a terminal window displaying the results of a SQL query. The output is a table with two columns: 'City' and 'Number of students placed'. The data is as follows:

City	Number of students placed
MUMBAI	7
PUNE	6
THANE	2
NAVI MUMBAI	1

Below the table, the text '4 rows in set (0.00 sec)' is displayed.

-- MAX CTC in each college

```
SELECT
    college_name AS `College Name`,
    MAX(CTC)
FROM
    placement JOIN student USING (student_id)
    JOIN college USING (college_id)
GROUP BY college_name;
```

College Name	MAX(CTC)
THADOMAL SHAHANI ENGINEERING COLLEGE	877722.00
XAVIER INSTITUTE OF ENGINEERING	400000.00
THAKUR COLLEGE OF ENGINEERING AND TECHNOLOGY	1899922.00
PILLAI COLLEGE OF ENGINEERING	1899922.00
MIT COLLEGE OF ENGINEERING	350000.00
PUNE INSTITUTE OF COMPUTER TECHNOLOGY	300000.00
TRINITY COLLEGE OF ENGINEERING AND RESEARCH	500000.00
INDIRA COLLEGE OF ENGINEERING AND MANAGEMENT	767678.00
VISHWAKARMA INSTITUTE OF TECHNOLOGY	67898.00

9 rows in set (0.03 sec)

Queries with procedures:

```
DROP PROCEDURE IF EXISTS verify_college_name;
```

```
DROP PROCEDURE IF EXISTS company_in_college;
```

```
DROP PROCEDURE IF EXISTS max_ctc_company_placement_in_college;
```

```
DELIMITER $$
```

```
CREATE PROCEDURE verify_college_name(
```

```
    IN input_college_name VARCHAR(100)
```

```
) BEGIN
```

```
    IF (
```

```
        SELECT NOT EXISTS (
```

```
            SELECT *
```

```
            FROM college
```

```
            WHERE college_name = input_college_name
```

```
        )
```

```
) THEN
```

```
    SIGNAL SQLSTATE '45000'
```

```
    SET MESSAGE_TEXT = 'College does not exist in our Database';
```

```
END IF;  
END $$
```

```
DELIMITER $$
```

```
CREATE PROCEDURE max_etc_company_placement_in_college(  
    IN input_college_name VARCHAR(100)  
) BEGIN  
    CALL verify_college_name(input_college_name);  
  
    SELECT  
        student.student_name AS `Name`,  
        college.college_name AS `College`,  
        company.company_name AS `Company`  
    FROM  
        student JOIN  
        college USING(college_id) JOIN  
        placement USING(student_id) JOIN  
        company USING (company_id) JOIN (  
            SELECT company_id  
            FROM company JOIN college_company  
            USING (company_id)  
            WHERE college_id IN (  
                SELECT college_id  
                FROM college  
                WHERE college_name = input_college_name  
            )  
        ORDER BY avg_sal DESC  
        LIMIT 1  
    ) max_paying_company  
    ON placement.company_id = max_paying_company.company_id  
    WHERE college_name = input_college_name;  
END $$
```

DELIMITER \$\$

```
CREATE PROCEDURE company_in_college(  
    IN input_college_name VARCHAR(100)  
) BEGIN  
    CALL verify_college_name(input_college_name);  
  
    SELECT  
        company.company_id AS `Company ID`,  
        company.company_name AS `Company Name`  
    FROM  
        company  
    WHERE company.company_id IN (  
        SELECT company_id  
        FROM college_company  
        WHERE college_id = (  
            SELECT college_id  
            FROM college  
            WHERE college_name = input_college_name  
        )  
    );  
END $$
```

DELIMITER ;


```
mysql> DELIMITER ;
mysql> CALL company_in_college('XAVIER INSTITUTE OF ENGINEERING');
+-----+-----+
| Company ID | Company Name |
+-----+-----+
|          12 | INFOSYS      |
+-----+-----+
1 row in set (0.16 sec)

Query OK, 0 rows affected (0.17 sec)

mysql> CALL max_ctc_company_placement_in_college('XAVIER INSTITUTE OF ENGINEERING');
+-----+-----+-----+
| Name          | College                               | Company |
+-----+-----+-----+
| RIA SINGH      | XAVIER INSTITUTE OF ENGINEERING      | INFOSYS |
| SHIVANGI GUPTA | XAVIER INSTITUTE OF ENGINEERING      | INFOSYS |
+-----+-----+-----+
2 rows in set (0.16 sec)

Query OK, 0 rows affected (0.19 sec)

mysql> CALL verify_college_name('JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY');
ERROR 1644 (45000): College does not exist in our Database
mysql>
```

