

STUDENT ID -202218061
NAME- JATAN SAHU
IT667 - Database Management Systems

Lab Assignment 2 - Retrieving Information From Tables using SQL

Use the Database created in Lab 1 for the exercise given below:

1. Execute the commands to fetch the data given below using UPDATE, ALTER, LIKE, GROUPBY keywords as per the requirement.

A – Fetch the data of students whose CPI is more than the average CPI of all the students.

CODE:

```
SELECT * FROM STUDENTS12 WHERE STUDENT_CPI > ( SELECT AVG(STUDENT_CPI)
FROM STUDENTS12 );
```

OUTPUT:

STUDENT_ID	STUDENT_NAME	STUDENT_DEGREE	STUDENT_BATCH	STUDENT_CPI
202218021	JAY	MBA	2018	9
202218020	JAGRIT	MTECH	2018	9
202218019	HIMANSHU	MBA	2018	9
202218018	ARYABHAT	PHD	2018	9
202218017	HEMANT	MBA	2018	8
202218014	OM	BTECH	2020	10
202218013	ISHA	BTECH	2019	9
202218012	SATAN	BTECH	2020	10

202218011	JATAN	MSC	2020	10
202218059	ANUBHAV	MBA	2020	10
202218058	RAM	MTECH	2020	9

[Download CSV](#)

11 rows selected.

B - Update the CPI of students of 2020 batch by one point.

CODE:

```
UPDATE STUDENTS12 SET STUDENT_CPI = STUDENT_CPI + 1 WHERE
STUDENT_BATCH = 2020;
```

```
SELECT * FROM STUDENTS12
```

OUTPUT:

7 row(s) updated.

Result Set 1

STUDENT_ID	STUDENT_NAME	STUDENT_DEGREE	STUDENT_BATCH	STUDENT_CPI
202218054	VIPUL	MSC	2020	7
202211005	PRATHAM	MBBS	2021	7
202218056	SHRIYANSH	BTECH	2022	3
202218022	JITUL	MSC	2021	5
202218021	JAY	MBA	2018	9
202218020	JAGRIT	MTECH	2018	9
202218019	HIMANSHU	MBA	2018	9
202218018	ARYABHAT	PHD	2018	9
202218017	HEMANT	MBA	2018	8
202218016	ANKIT	MSC	2020	5

202218015	ARUN	BTECH	2017	4
202218014	OM	BTECH	2020	10
202218013	ISHA	BTECH	2019	9
202218012	SATAN	BTECH	2020	10
202218011	JATAN	MSC	2020	10
202218059	ANUBHAV	MBA	2020	10
202218058	RAM	MTECH	2020	9
202218062	SUMAN	MTECH	2019	7
202218069	SHRAWAN	MTECH	2019	7
202218065	VIKASH	MTECH	2019	7

[Download CSV](#)

20 rows selected.

C - Fetch the name of the students whose name starts with 'A' and at least 2 characters in length.* /

SELECT * FROM STUDENTS12 WHERE STUDENT_NAME LIKE 'A_%';

OUTPUT:

STUDENT_ID	STUDENT_NAME	STUDENT_DEGREE	STUDENT_BATCH	STUDENT_CPI
202218018	ARYABHAT	PHD	2018	9
202218016	ANKIT	MSC	2020	5
202218015	ARUN	BTECH	2017	4
202218059	ANUBHAV	MBA	2020	10

[Download CSV](#)

4 rows selected.

**/*D - Count the number of students in each branch and sort the count in ascending order of the count.*/
INPUT:**

SELECT STUDENT_DEGREE, COUNT(*) AS COUNT_OF_STUDENT FROM STUDENTS12
GROUP BY STUDENT_DEGREE ORDER BY COUNT_OF_STUDENT

OUTPUT:

STUDENT_DEGREE	COUNT_OF_STUDENT
MBBS	1
PHD	1
MBA	4
MSC	4
BTECH	5
MTECH	5

[Download CSV](#)

6 rows selected.

E - Delete the record of the students of batches till 2019.

INPUT:

DELETE FROM STUDENTS12 WHERE STUDENT_BATCH<=2019;

OUTPUT:

STUDENT_ID	STUDENT_NAME	STUDENT_DEGREE	STUDENT_BATCH	STUDENT_CPI
202218054	VIPUL	MSC	2020	6
202211005	PRATHAM	MBBS	2021	7
202218056	SHRIYANSH	BTECH	2022	3
202218022	JITUL	MSC	2021	5
202218016	ANKIT	MSC	2020	4
202218014	OM	BTECH	2020	9

20221801 2	SATAN	BTECH	2020	9
20221801 1	JATAN	MSC	2020	9
20221805 9	ANUBHAV	MBA	2020	9
20221805 8	RAM	MTECH	2020	8

[Download CSV](#)
10 rows selected.