**Wednesday Assignment**

* create table student\_details(registration\_number int primary key, name varchar(25) not null, branch varchar(15) not null, contact bigint not null, DOB date, Date\_of\_joining date, address varchar(40) not null, email\_id varchar(20) not null);
* desc student\_details;

Output:

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

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

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

| registration\_number | int | NO | PRI | NULL | |

| name | varchar(25) | NO | | NULL | |

| branch | varchar(15) | NO | | NULL | |

| contact | bigint | NO | | NULL | |

| DOB | date | YES | | NULL | |

| Date\_of\_joining | date | YES | | NULL | |

| address | varchar(40) | NO | | NULL | |

| email\_id | varchar(20) | NO | | NULL | |

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

* insert into student\_details values (10034, 'Arindam Das', 'MCA', 9563908202, '1999-02-25', '2021-03-18', 'Midnapore', 'arindam@gmail.com');
* insert into student\_details values (10001, 'Arijit Ghosh', 'BCA', 9635760283, '1999-03-27', '2020-06-22', 'Kalyani', 'arijit@gmail.com');
* insert into student\_details values (10002, 'Pritam Mondal', 'B.TECH(CSE)', 9564792416, '1999-07-10', '2019-08-16', 'Balurghat', 'pritam@gmail.com');
* insert into student\_details values (10023, 'Sayan Banerjee', 'B.TECH(EEE)', 6295388734, '1999-12-18', '2017-08-16', 'Kolkata', 'sayan@gmail.com');
* insert into student\_details values (10029, 'Ankitnath Das', 'BBA', 7001321583, '1999-07-10', '2022-06-29', 'Rachi', 'ankit@gmail.com');
* insert into student\_details values (10042, 'Srijan Routh', 'MBA', 7001321583, '1999-01-11', '2018-06-29', 'Bhubaneswar', 'srijan@gmail.com');
* insert into student\_details values (10028, 'Sabdick Das', 'B.TECH(EEE)', 8004321533, '1999-08-25', '2019-09-16', 'Kolkata', 'sabdick@gmail.com');
* insert into student\_details values (10045, 'Priya Karmakar', 'MCA', 8617069095, '1999-12-27', '2021-03-18', 'Midnapore', 'priya@gmail.com');
* select \* from student\_details;

Output:

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

| registration\_number | name | branch | contact | DOB | Date\_of\_joining | address | email\_id |

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

| 10001 | Arijit Ghosh | BCA | 9635760283 | 1999-03-27 | 2020-06-22 | Kalyani | arijit@gmail.com |

| 10002 | Pritam Mondal | B.TECH(CSE) | 9564792416 | 1999-07-10 | 2019-08-16 | Balurghat | pritam@gmail.com |

| 10023 | Sayan Banerjee | B.TECH(EEE) | 6295388734 | 1999-12-18 | 2019-09-16 | Kolkata | sayan@gmail.com |

| 10028 | Sabdick Das | B.TECH(EEE) | 8004321533 | 1999-08-25 | 2019-09-16 | Kolkata | sabdick@gmail.com |

| 10029 | Ankitnath Das | BBA | 7001321583 | 1999-07-10 | 2022-06-29 | Rachi | ankit@gmail.com |

| 10034 | Arindam Das | MCA | 9563908202 | 1999-02-25 | 2021-03-18 | Midnapore | arindam@gmail.com |

| 10042 | Srijan Routh | MBA | 7001321583 | 1999-01-11 | 2018-06-29 | Bhubaneswar | srijan@gmail.com |

| 10045 | Priya Karmakar | MCA | 8617069095 | 1999-12-27 | 2021-03-18 | Midnapore | priya@gmail.com |

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* create table subject\_details(subject\_code varchar(10) primary key, subject\_1 int not null, subject\_2 int not null, subject\_3 int not null, semester\_no int not null,reg\_no int, foreign key(reg\_no) references student\_details(registration\_number));
* desc subject\_details;

Output:

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

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

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

| subject\_code | varchar(10) | NO | PRI | NULL | |

| subject\_1 | int | NO | | NULL | |

| subject\_2 | int | NO | | NULL | |

| subject\_3 | int | NO | | NULL | |

| semester\_no | int | NO | | NULL | |

| reg\_no | int | YES | MUL | NULL | |

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

* insert into subject\_details values(401, 87, 88, 79, 4, 10034);
* insert into subject\_details values(801, 91, 76, 89, 8, 10002);
* insert into subject\_details values(601, 71, 69, 81, 6, 10001);
* insert into subject\_details values(701, 92, 99, 93, 7, 10023);
* insert into subject\_details values(201, 75, 79, 77, 2, 10029);
* insert into subject\_details values(301, 65, 69, 67, 3, 10042);
* insert into subject\_details values(402, 76, 89, 97, 4, 10045);
* insert into subject\_details values(702, 80, 88, 87, 7, 10028);
* select \* from subject\_details;

Output:

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

| subject\_code | subject\_1 | subject\_2 | subject\_3 | semester\_no | reg\_no |

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

| 201 | 75 | 79 | 77 | 2 | 10029 |

| 301 | 65 | 69 | 67 | 3 | 10042 |

| 401 | 87 | 88 | 79 | 4 | 10034 |

| 402 | 76 | 89 | 97 | 4 | 10045 |

| 601 | 71 | 69 | 81 | 6 | 10001 |

| 701 | 92 | 99 | 93 | 7 | 10023 |

| 702 | 80 | 88 | 87 | 7 | 10028 |

| 801 | 91 | 76 | 89 | 8 | 10002 |

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

**Q.1. Display a students information after updating his/her details.**

* update student\_details set date\_of\_joining='2019-09-16' where registration\_number=10023;
* select \* from student\_details;

Output:

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

| registration\_number | name | branch | contact | DOB | Date\_of\_joining | address | email\_id |

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

| 10001 | Arijit Ghosh | BCA | 9635760283 | 1999-03-27 | 2020-06-22 | Kalyani | arijit@gmail.com |

| 10002 | Pritam Mondal | B.TECH(CSE) | 9564792416 | 1999-07-10 | 2019-08-16 | Balurghat | pritam@gmail.com |

| 10023 | Sayan Banerjee | B.TECH(EEE) | 6295388734 | 1999-12-18 | 2019-09-16 | Kolkata | sayan@gmail.com |

| 10029 | Ankitnath Das | BBA | 7001321583 | 1999-07-10 | 2022-06-29 | Rachi | ankit@gmail.com |

| 10034 | Arindam Das | MCA | 9563908202 | 1999-02-25 | 2021-03-18 | Midnapore | arindam@gmail.com |

| 10042 | Srijan Routh | MBA | 7001321583 | 1999-01-11 | 2018-06-29 | Bhubaneswar | srijan@gmail.com |

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

**Q.2. Display the average marks of all the students.**

* select s.name, (su.subject\_1+su.subject\_2+su.subject\_3)/3 as average\_of\_all\_student from student\_Details s, subject\_details su where s.registration\_number=su.reg\_no;

Output:

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

| name | average\_of\_all\_student |

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

| Arijit Ghosh | 73.6667 |

| Pritam Mondal | 85.3333 |

| Sayan Banerjee | 94.6667 |

| Sabdick Das | 85.0000 |

| Ankitnath Das | 77.0000 |

| Arindam Das | 84.6667 |

| Srijan Routh | 67.0000 |

| Priya Karmakar | 87.3333 |

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

**Q.3. Display the average marks of students from a particular branch.**

* select s.branch, (su.subject\_1+su.subject\_2+su.subject\_3)/3 as average from student\_details s inner join subject\_details su on s.registration\_number=su.reg\_no where branch like '%MCA%';

Output:

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

| branch | average |

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

| MCA | 84.6667 |

| MCA | 87.3333 |

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

**Q.4. Display the sum of marks of students where semester = 3.**

* select (subject\_1+subject\_2+subject\_3) as sum\_of\_marks, semester\_no from subject\_details where semester\_no=3;

Output:

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

| sum\_of\_marks | semester\_no |

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

| 201 | 3 |

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

**Q.5. Display the reg\_no,student name, marks whose sum of marks is greater than 250.**

* select s.registration\_number, s.name, (su.subject\_1+su.subject\_2+su.subject\_3) as sum\_of\_marks from student\_details s inner join subject\_details su on s.registration\_number=su.reg\_no where (su.subject\_1+su.subject\_2+su.subject\_3)>250;

Output:

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

| registration\_number | name | sum\_of\_marks |

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

| 10002 | Pritam Mondal | 256 |

| 10023 | Sayan Banerjee | 284 |

| 10028 | Sabdick Das | 255 |

| 10034 | Arindam Das | 254 |

| 10045 | Priya Karmakar | 262 |

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

**Q.6. Calculate the percentage for the marks for all the students. Display the reg\_no, student\_name, branch, semester and percentage.**

* select s.registration\_number, s.name, s.branch, su.semester\_no, (((su.subject\_1+su.subject\_2+su.subject\_3)/3)/9.5) as percentage from student\_details s inner join subject\_details su on s.registration\_number=su.reg\_no;

Output:

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

| registration\_number | name | branch | semester\_no | percentage |

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

| 10001 | Arijit Ghosh | BCA | 6 | 7.75438596 |

| 10002 | Pritam Mondal | B.TECH(CSE) | 8 | 8.98245614 |

| 10023 | Sayan Banerjee | B.TECH(EEE) | 7 | 9.96491228 |

| 10028 | Sabdick Das | B.TECH(EEE) | 7 | 8.94736842 |

| 10029 | Ankitnath Das | BBA | 2 | 8.10526316 |

| 10034 | Arindam Das | MCA | 4 | 8.91228070 |

| 10042 | Srijan Routh | MBA | 3 | 7.05263158 |

| 10045 | Priya Karmakar | MCA | 4 | 9.19298246 |

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