Assignment

DBT/ 007

Database Technologies

Diploma in Advance Computing

**DML commands: Select data with WHERE, GROUP BY, HAVING, ORDER BY and LIMIT clause.**

USE ***student\_phone, student\_address, faculty\_phone, faculty\_address, batch\_students, course\_batches, student\_qualifications, faculty\_qualifications, course\_modules, modules, faculty, student, course, student\_cards, and student\_order*** relation to solve the following queries.

|  |
| --- |
| * List all students. |
| mysql> select \* from student;  +----+-----------+----------+------------+--------------------------+  | ID | namefirst | namelast | DOB | emailID |  +----+-----------+----------+------------+--------------------------+  | 1 | saleel | bagde | 1984-06-12 | saleel.bagde@gmail.com |  | 2 | omkar | rokde | 1969-10-25 | omkar.rakde@gmail.com |  | 3 | ulka | joshi | 1970-10-25 | ulka.joshi@gmail.com |  | 4 | rahul | patil | 1982-10-31 | rahul.patil@gmail.com |  | 5 | ruhan | bagde | 1984-01-12 | ruhan.bagde@gmail.com |  | 6 | lala | prasad | 1980-12-01 | lala.prasad@gmail.com |  | 7 | sharmin | bagde | 1986-12-14 | sharmin.bagde@gmail.com |  | 8 | vrushali | bagde | 1984-12-29 | vrushali.bagde@gmail.com |  | 9 | vasant | khande | 1992-10-26 | vasant.khande@gmail.com |  | 10 | nitish | patil | 1990-10-26 | nitish.patil@gmail.com |  | 11 | neel | save | 1975-10-30 | neel.save@gmail.com |  | 12 | deep | save | 1986-11-30 | deep.save@gmail.com |  | 13 | nrupali | save | 1981-12-01 | nrupali.save@gmail.com |  | 14 | supriya | karnik | 1983-12-15 | supriya.karnik@gmail.com |  | 15 | bandish | karnik | 1987-12-30 | bandish.karnik@gmail.com |  | 16 | sangita | karnik | 1990-12-01 | sangita.karnik@gmail.com |  | 17 | sangita | menon | 1989-10-26 | sangita.menon@gmail.com |  | 18 | rahul | shah | 1982-06-12 | rahul.shah@gmail.com |  | 19 | bhavin | patel | 1983-11-13 | bhavin.patel@gmail.com |  | 20 | kaushal | patil | 1982-07-30 | kaushal.patil@gmail.com |  | 21 | pankaj | gandhi | 1982-07-30 | pankaj.gandhi@gmail.com |  | 22 | rajan | patel | 1982-07-30 | rajan.patel@gmail.com |  | 23 | bhavin | patel | 1982-07-30 | bhavin.patel@gmail.com |  | 24 | mukesh | bhavsar | 1982-07-30 | mukesh.bhavsar@gmail.com |  | 25 | dilu | khande | 1982-07-30 | dilu.khande@gmail.com |  | 26 | sonam | khan | 1972-05-13 | sonam.khan@gmail.com |  | 27 | rohit | patil | 1976-12-31 | rohit.patil@gmail.com |  | 28 | raj | bubber | 1982-02-28 | raj.bubber@gmail.com |  +----+-----------+----------+------------+--------------------------+  28 rows in set (0.00 sec) |
|  |
| * List namefirst, namelast of all students. |
| mysql> select namefirst, namelast from student;  +-----------+----------+  | namefirst | namelast |  +-----------+----------+  | saleel | bagde |  | omkar | rokde |  | ulka | joshi |  | rahul | patil |  | ruhan | bagde |  | lala | prasad |  | sharmin | bagde |  | vrushali | bagde |  | vasant | khande |  | nitish | patil |  | neel | save |  | deep | save |  | nrupali | save |  | supriya | karnik |  | bandish | karnik |  | sangita | karnik |  | sangita | menon |  | rahul | shah |  | bhavin | patel |  | kaushal | patil |  | pankaj | gandhi |  | rajan | patel |  | bhavin | patel |  | mukesh | bhavsar |  | dilu | khande |  | sonam | khan |  | rohit | patil |  | raj | bubber |  +-----------+----------+  28 rows in set (0.00 sec) |
|  |
| * Display student information of the student whose student*ID* is 10. |
| mysql> select namefirst, namelast,dob,emailid from student where id=10;  +-----------+----------+------------+------------------------+  | namefirst | namelast | dob | emailid |  +-----------+----------+------------+------------------------+  | nitish | patil | 1990-10-26 | nitish.patil@gmail.com |  +-----------+----------+------------+------------------------+  1 row in set (0.00 sec) |
|  |
| * List of various faculties available from faculty table. |
| 4 rows in set (0.00 sec)  mysql> select\* from faculty;  +----+-----------+----------+------------+------------------------+  | ID | namefirst | namelast | DOB | emailID |  +----+-----------+----------+------------+------------------------+  | 1 | prachi | gupta | 1974-06-12 | prachi.gupta@gmail.com |  | 2 | ketan | shukla | 1972-10-25 | ketan.shukla@gmail.com |  | 3 | kiran | dev | 1971-10-25 | kiran.dev@gmail.com |  | 4 | parag | patil | 1972-10-31 | parag.patil@gmail.com |  +----+-----------+----------+------------+------------------------+  4 rows in set (0.00 sec) |
|  |
| * List all students having ‘A’ as second letter in their namefirst. |
| mysql> select \* from student;  +----+-----------+----------+------------+--------------------------+  | ID | namefirst | namelast | DOB | emailID |  +----+-----------+----------+------------+--------------------------+  | 1 | saleel | bagde | 1984-06-12 | saleel.bagde@gmail.com |  | 2 | omkar | rokde | 1969-10-25 | omkar.rakde@gmail.com |  | 3 | ulka | joshi | 1970-10-25 | ulka.joshi@gmail.com |  | 4 | rahul | patil | 1982-10-31 | rahul.patil@gmail.com |  | 5 | ruhan | bagde | 1984-01-12 | ruhan.bagde@gmail.com |  | 6 | lala | prasad | 1980-12-01 | lala.prasad@gmail.com |  | 7 | sharmin | bagde | 1986-12-14 | sharmin.bagde@gmail.com |  | 8 | vrushali | bagde | 1984-12-29 | vrushali.bagde@gmail.com |  | 9 | vasant | khande | 1992-10-26 | vasant.khande@gmail.com |  | 10 | nitish | patil | 1990-10-26 | nitish.patil@gmail.com |  | 11 | neel | save | 1975-10-30 | neel.save@gmail.com |  | 12 | deep | save | 1986-11-30 | deep.save@gmail.com |  | 13 | nrupali | save | 1981-12-01 | nrupali.save@gmail.com |  | 14 | supriya | karnik | 1983-12-15 | supriya.karnik@gmail.com |  | 15 | bandish | karnik | 1987-12-30 | bandish.karnik@gmail.com |  | 16 | sangita | karnik | 1990-12-01 | sangita.karnik@gmail.com |  | 17 | sangita | menon | 1989-10-26 | sangita.menon@gmail.com |  | 18 | rahul | shah | 1982-06-12 | rahul.shah@gmail.com |  | 19 | bhavin | patel | 1983-11-13 | bhavin.patel@gmail.com |  | 20 | kaushal | patil | 1982-07-30 | kaushal.patil@gmail.com |  | 21 | pankaj | gandhi | 1982-07-30 | pankaj.gandhi@gmail.com |  | 22 | rajan | patel | 1982-07-30 | rajan.patel@gmail.com |  | 23 | bhavin | patel | 1982-07-30 | bhavin.patel@gmail.com |  | 24 | mukesh | bhavsar | 1982-07-30 | mukesh.bhavsar@gmail.com |  | 25 | dilu | khande | 1982-07-30 | dilu.khande@gmail.com |  | 26 | sonam | khan | 1972-05-13 | sonam.khan@gmail.com |  | 27 | rohit | patil | 1976-12-31 | rohit.patil@gmail.com |  | 28 | raj | bubber | 1982-02-28 | raj.bubber@gmail.com |  +----+-----------+----------+------------+--------------------------+  28 rows in set (0.00 sec)  mysql> select namefirst from student where namefirst like '\_a%';  +-----------+  | namefirst |  +-----------+  | saleel |  | rahul |  | lala |  | vasant |  | bandish |  | sangita |  | sangita |  | rahul |  | kaushal |  | pankaj |  | rajan |  | raj |  +-----------+  12 rows in set (0.00 sec) |
|  |
| * List all students having letter ‘A’ in their namefirst. |
| mysql> select namefirst from student where namefirst like '%a%';  +-----------+  | namefirst |  +-----------+  | saleel |  | omkar |  | ulka |  | rahul |  | ruhan |  | lala |  | sharmin |  | vrushali |  | vasant |  | nrupali |  | supriya |  | bandish |  | sangita |  | sangita |  | rahul |  | bhavin |  | kaushal |  | pankaj |  | rajan |  | bhavin |  | sonam |  | raj |  +-----------+  22 rows in set (0.00 sec) |
|  |
| * Display the details of the student whose DOB is'1986-12-14'. |
| mysql> select namefirst ,lastname, Dob from student where dob='1986-12-14';  ERROR 1054 (42S22): Unknown column 'lastname' in 'field list'  mysql> select namefirst ,namelast, Dob from student where dob='1986-12-14';  +-----------+----------+------------+  | namefirst | namelast | Dob |  +-----------+----------+------------+  | sharmin | bagde | 1986-12-14 |  +-----------+----------+------------+  1 row in set (0.00 sec) |
|  |
| * List all students having ‘R’ as first letter in their namefirst. |
| mysql> select namefirst from student where namefirst like'r%';  +-----------+  | namefirst |  +-----------+  | rahul |  | ruhan |  | rahul |  | rajan |  | rohit |  | raj |  +-----------+  6 rows in set (0.00 sec) |
|  |
| * Display the *namefirst, lastname* from student relation with Customized column headings. |
| mysql> alter table student rename column namefirst to `firstname`;  Query OK, 0 rows affected (0.15 sec)  Records: 0 Duplicates: 0 Warnings: 0  mysql> alter table student rename column namelast to `lastname`;  Query OK, 0 rows affected (0.05 sec)  Records: 0 Duplicates: 0 Warnings: 0  mysql> select \* from student  -> ;  +----+-----------+----------+------------+--------------------------+  | ID | firstname | lastname | DOB | emailID |  +----+-----------+----------+------------+--------------------------+  | 1 | saleel | bagde | 1984-06-12 | saleel.bagde@gmail.com |  | 2 | omkar | rokde | 1969-10-25 | omkar.rakde@gmail.com |  | 3 | ulka | joshi | 1970-10-25 | ulka.joshi@gmail.com |  | 4 | rahul | patil | 1982-10-31 | rahul.patil@gmail.com |  | 5 | ruhan | bagde | 1984-01-12 | ruhan.bagde@gmail.com |  | 6 | lala | prasad | 1980-12-01 | lala.prasad@gmail.com |  | 7 | sharmin | bagde | 1986-12-14 | sharmin.bagde@gmail.com |  | 8 | vrushali | bagde | 1984-12-29 | vrushali.bagde@gmail.com |  | 9 | vasant | khande | 1992-10-26 | vasant.khande@gmail.com |  | 10 | nitish | patil | 1990-10-26 | nitish.patil@gmail.com |  | 11 | neel | save | 1975-10-30 | neel.save@gmail.com |  | 12 | deep | save | 1986-11-30 | deep.save@gmail.com |  | 13 | nrupali | save | 1981-12-01 | nrupali.save@gmail.com |  | 14 | supriya | karnik | 1983-12-15 | supriya.karnik@gmail.com |  | 15 | bandish | karnik | 1987-12-30 | bandish.karnik@gmail.com |  | 16 | sangita | karnik | 1990-12-01 | sangita.karnik@gmail.com |  | 17 | sangita | menon | 1989-10-26 | sangita.menon@gmail.com |  | 18 | rahul | shah | 1982-06-12 | rahul.shah@gmail.com |  | 19 | bhavin | patel | 1983-11-13 | bhavin.patel@gmail.com |  | 20 | kaushal | patil | 1982-07-30 | kaushal.patil@gmail.com |  | 21 | pankaj | gandhi | 1982-07-30 | pankaj.gandhi@gmail.com |  | 22 | rajan | patel | 1982-07-30 | rajan.patel@gmail.com |  | 23 | bhavin | patel | 1982-07-30 | bhavin.patel@gmail.com |  | 24 | mukesh | bhavsar | 1982-07-30 | mukesh.bhavsar@gmail.com |  | 25 | dilu | khande | 1982-07-30 | dilu.khande@gmail.com |  | 26 | sonam | khan | 1972-05-13 | sonam.khan@gmail.com |  | 27 | rohit | patil | 1976-12-31 | rohit.patil@gmail.com |  | 28 | raj | bubber | 1982-02-28 | raj.bubber@gmail.com |  +----+-----------+----------+------------+--------------------------+  28 rows in set (0.00 sec) |
|  |
| * Display all students in ascending order of their DOB. |
| mysql> select \* from student order by dob desc;  +----+-----------+----------+------------+--------------------------+  | ID | firstname | lastname | DOB | emailID |  +----+-----------+----------+------------+--------------------------+  | 9 | vasant | khande | 1992-10-26 | vasant.khande@gmail.com |  | 16 | sangita | karnik | 1990-12-01 | sangita.karnik@gmail.com |  | 10 | nitish | patil | 1990-10-26 | nitish.patil@gmail.com |  | 17 | sangita | menon | 1989-10-26 | sangita.menon@gmail.com |  | 15 | bandish | karnik | 1987-12-30 | bandish.karnik@gmail.com |  | 7 | sharmin | bagde | 1986-12-14 | sharmin.bagde@gmail.com |  | 12 | deep | save | 1986-11-30 | deep.save@gmail.com |  | 8 | vrushali | bagde | 1984-12-29 | vrushali.bagde@gmail.com |  | 1 | saleel | bagde | 1984-06-12 | saleel.bagde@gmail.com |  | 5 | ruhan | bagde | 1984-01-12 | ruhan.bagde@gmail.com |  | 14 | supriya | karnik | 1983-12-15 | supriya.karnik@gmail.com |  | 19 | bhavin | patel | 1983-11-13 | bhavin.patel@gmail.com |  | 4 | rahul | patil | 1982-10-31 | rahul.patil@gmail.com |  | 20 | kaushal | patil | 1982-07-30 | kaushal.patil@gmail.com |  | 21 | pankaj | gandhi | 1982-07-30 | pankaj.gandhi@gmail.com |  | 22 | rajan | patel | 1982-07-30 | rajan.patel@gmail.com |  | 23 | bhavin | patel | 1982-07-30 | bhavin.patel@gmail.com |  | 24 | mukesh | bhavsar | 1982-07-30 | mukesh.bhavsar@gmail.com |  | 25 | dilu | khande | 1982-07-30 | dilu.khande@gmail.com |  | 18 | rahul | shah | 1982-06-12 | rahul.shah@gmail.com |  | 28 | raj | bubber | 1982-02-28 | raj.bubber@gmail.com |  | 13 | nrupali | save | 1981-12-01 | nrupali.save@gmail.com |  | 6 | lala | prasad | 1980-12-01 | lala.prasad@gmail.com |  | 27 | rohit | patil | 1976-12-31 | rohit.patil@gmail.com |  | 11 | neel | save | 1975-10-30 | neel.save@gmail.com |  | 26 | sonam | khan | 1972-05-13 | sonam.khan@gmail.com |  | 3 | ulka | joshi | 1970-10-25 | ulka.joshi@gmail.com |  | 2 | omkar | rokde | 1969-10-25 | omkar.rakde@gmail.com |  +----+-----------+----------+------------+--------------------------+  28 rows in set (0.00 sec) |
|  |
| * Display two records of student whose name starts with the letter ‘S’. |
| mysql> select \* from student where firstname like 's%';  +----+-----------+----------+------------+--------------------------+  | ID | firstname | lastname | DOB | emailID |  +----+-----------+----------+------------+--------------------------+  | 1 | saleel | bagde | 1984-06-12 | saleel.bagde@gmail.com |  | 7 | sharmin | bagde | 1986-12-14 | sharmin.bagde@gmail.com |  | 14 | supriya | karnik | 1983-12-15 | supriya.karnik@gmail.com |  | 16 | sangita | karnik | 1990-12-01 | sangita.karnik@gmail.com |  | 17 | sangita | menon | 1989-10-26 | sangita.menon@gmail.com |  | 26 | sonam | khan | 1972-05-13 | sonam.khan@gmail.com |  +----+-----------+----------+------------+--------------------------+  6 rows in set (0.00 sec)  mysql> select \* from student where firstname like 's%' limit2;  ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'limit2' at line 1  mysql> select \* from student where firstname like 's%' limit 2;  +----+-----------+----------+------------+-------------------------+  | ID | firstname | lastname | DOB | emailID |  +----+-----------+----------+------------+-------------------------+  | 1 | saleel | bagde | 1984-06-12 | saleel.bagde@gmail.com |  | 7 | sharmin | bagde | 1986-12-14 | sharmin.bagde@gmail.com |  +----+-----------+----------+------------+-------------------------+  2 rows in set (0.00 sec) |
|  |
| * Display the student detail whose DOB is ‘1986-12-14’. |
| mysql> select \* from student where dob='1986-12-14';  +----+-----------+----------+------------+-------------------------+  | ID | firstname | lastname | DOB | emailID |  +----+-----------+----------+------------+-------------------------+  | 7 | sharmin | bagde | 1986-12-14 | sharmin.bagde@gmail.com |  +----+-----------+----------+------------+-------------------------+  1 row in set (0.00 sec) |
|  |
| * Display all modules whose module duration is 1 (use modules table). |
| mysql> select \* from modules where duration=1;  +----+----------+----------+  | ID | name | duration |  +----+----------+----------+  | 1 | Oracle | 1 |  | 2 | PHP | 1 |  | 3 | MySQL | 1 |  | 4 | Node | 1 |  | 5 | C++ | 1 |  | 6 | C | 1 |  | 9 | MongoDB | 1 |  | 11 | Hive | 1 |  | 12 | Python | 1 |  | 13 | Aptitude | 1 |  +----+----------+----------+  10 rows in set (0.00 sec) |
|  |
| * Display all batches whose sitting capacity is 80 students (use course\_batches table). |
| mysql> select \* from course\_batches;  +----+---------+----------+------------+------------+----------+  | ID | name | courseID | starton | endson | capacity |  +----+---------+----------+------------+------------+----------+  | 1 | Batch1 | 1 | 2016-02-01 | 2016-08-31 | 80 |  | 2 | Batch2 | 2 | 2016-02-01 | 2016-08-31 | 30 |  | 3 | Batch3 | 3 | 2016-02-01 | 2016-03-31 | 35 |  | 4 | Batch4 | 4 | 2016-07-01 | 2016-09-30 | 25 |  | 5 | Batch5 | 5 | 2016-07-01 | 2016-09-30 | 25 |  | 6 | Batch6 | 1 | 2015-02-01 | 2015-08-31 | 80 |  | 7 | Batch7 | 2 | 2015-02-01 | 2015-08-31 | 30 |  | 8 | Batch8 | 3 | 2017-04-01 | 2017-05-31 | 30 |  | 9 | Batch9 | 4 | 2018-07-01 | 2018-09-30 | 25 |  | 10 | Batch10 | 5 | 2018-09-01 | 2018-11-30 | 25 |  | 11 | Batch11 | 1 | 2017-08-01 | 2018-02-28 | 80 |  | 12 | Batch12 | 2 | 2017-08-01 | 2018-02-28 | 30 |  | 13 | Batch13 | 3 | 2017-07-01 | 2017-08-31 | 30 |  | 14 | Batch14 | 4 | 2018-05-01 | 2018-07-31 | 25 |  | 15 | Batch15 | 5 | 2018-06-01 | 2018-08-30 | 25 |  | 16 | Batch16 | 1 | 2014-08-01 | 2015-02-28 | 80 |  | 17 | Batch17 | 2 | 2014-08-01 | 2015-02-28 | 30 |  | 18 | Batch18 | 3 | 2018-03-01 | 2018-04-30 | 35 |  | 19 | Batch19 | 4 | 2019-01-01 | 2019-03-30 | 25 |  | 20 | Batch20 | 5 | 2018-12-01 | 2019-02-28 | 25 |  | 21 | Batch21 | 1 | 2015-08-01 | 2016-02-28 | 80 |  | 22 | Batch22 | 2 | 2015-08-01 | 2016-02-28 | 30 |  | 23 | Batch23 | 3 | 2019-03-01 | 2019-04-30 | 40 |  | 24 | Batch24 | 4 | 2019-01-01 | 2019-03-30 | 30 |  | 25 | Batch25 | 6 | 2019-01-01 | 2019-03-30 | 30 |  +----+---------+----------+------------+------------+----------+  25 rows in set (0.00 sec)  mysql> select \* from course\_batches where capacity=80;  +----+---------+----------+------------+------------+----------+  | ID | name | courseID | starton | endson | capacity |  +----+---------+----------+------------+------------+----------+  | 1 | Batch1 | 1 | 2016-02-01 | 2016-08-31 | 80 |  | 6 | Batch6 | 1 | 2015-02-01 | 2015-08-31 | 80 |  | 11 | Batch11 | 1 | 2017-08-01 | 2018-02-28 | 80 |  | 16 | Batch16 | 1 | 2014-08-01 | 2015-02-28 | 80 |  | 21 | Batch21 | 1 | 2015-08-01 | 2016-02-28 | 80 |  +----+---------+----------+------------+------------+----------+  5 rows in set (0.00 sec) |
|  |
| * Display all student qualification who have done’ BE’ and secured marks more than 70. (use student\_qualifications table). |
| mysql> select \* from student\_qualifications where name='be'and marks>=70;  +----+-----------+------+-------------+------------------------+-------+------+  | ID | studentID | name | college | university | marks | year |  +----+-----------+------+-------------+------------------------+-------+------+  | 18 | 6 | BE | Indiana | University of Chicago | 87 | 2015 |  | 21 | 7 | BE | Kentucky | Harvard University | 97 | 2017 |  | 27 | 9 | BE | Kansas | Columbia University | 87 | 2018 |  | 48 | 16 | BE | Mississippi | University of Michigan | 76 | 2018 |  | 54 | 18 | BE | Maryland | Harvard University | 75 | 2017 |  | 60 | 20 | BE | Maryland | Columbia University | 72 | 2019 |  | 72 | 24 | BE | Kentucky | Harvard University | 97 | 2017 |  | 75 | 25 | BE | Kentucky | Harvard University | 97 | 2017 |  +----+-----------+------+-------------+------------------------+-------+------+  8 rows in set (0.00 sec) |
|  |
| * Display all student qualification who have done’ BE’ and graduated in the year 2017. (use student\_qualifications table). |
| mysql> select \* from student\_qualifications where name='be'and year=2017;  +----+-----------+------+----------+-------------------------+-------+------+  | ID | studentID | name | college | university | marks | year |  +----+-----------+------+----------+-------------------------+-------+------+  | 9 | 3 | BE | Florida | University of Florida | 67 | 2017 |  | 21 | 7 | BE | Kentucky | Harvard University | 97 | 2017 |  | 45 | 15 | BE | Alabama | Pennsylvania University | 65 | 2017 |  | 54 | 18 | BE | Maryland | Harvard University | 75 | 2017 |  | 72 | 24 | BE | Kentucky | Harvard University | 97 | 2017 |  | 75 | 25 | BE | Kentucky | Harvard University | 97 | 2017 |  +----+-----------+------+----------+-------------------------+-------+------+  6 rows in set (0.00 sec) |
|  |
| * Display all student qualification who have done’ BE’ and graduated in the year 2017 and scored marks more than 80. (Use student\_qualifications table). |
| mysql> select \* from student\_qualifications where name='be'and year=2017 and marks>80 ;  +----+-----------+------+----------+--------------------+-------+------+  | ID | studentID | name | college | university | marks | year |  +----+-----------+------+----------+--------------------+-------+------+  | 21 | 7 | BE | Kentucky | Harvard University | 97 | 2017 |  | 72 | 24 | BE | Kentucky | Harvard University | 97 | 2017 |  | 75 | 25 | BE | Kentucky | Harvard University | 97 | 2017 |  +----+-----------+------+----------+--------------------+-------+------+  3 rows in set (0.00 sec) |
|  |
| * Display faculty qualification who have done ‘BE’ from ‘Harvard University’(use faculty\_qualifications table) |
| mysql> select \* from faculty\_qualifications;  +----+-----------+------+---------------+-------------------------+-------+------+  | ID | facultyID | name | college | university | marks | year |  +----+-----------+------+---------------+-------------------------+-------+------+  | 1 | 1 | 10 | Alabama | Stanford University | 67 | 2012 |  | 2 | 1 | 12 | Alaska | Harvard University | 74 | 2014 |  | 3 | 1 | BE | Arizona | Harvard University | 68 | 2018 |  | 4 | 2 | 10 | Alaska | University of Chicago | 68 | 2013 |  | 5 | 2 | 12 | New York | Yale University | 56 | 2015 |  | 6 | 2 | BE | Arkansas | Yale University | 64 | 2019 |  | 7 | 3 | 10 | Arizona | Yale University | 75 | 2011 |  | 8 | 3 | 12 | California | California University | 86 | 2013 |  | 9 | 3 | BE | Florida | University of Florida | 67 | 2017 |  | 10 | 4 | 10 | Idaho | Pennsylvania University | 58 | 2010 |  | 11 | 4 | 12 | New Hampshire | Yale University | 97 | 2012 |  | 12 | 4 | BE | Montana | Columbia University | 77 | 2016 |  +----+-----------+------+---------------+-------------------------+-------+------+  12 rows in set (0.02 sec)  mysql> select \* from faculty\_qualifications where name='BE' and university='harvard university';  +----+-----------+------+---------+--------------------+-------+------+  | ID | facultyID | name | college | university | marks | year |  +----+-----------+------+---------+--------------------+-------+------+  | 3 | 1 | BE | Arizona | Harvard University | 68 | 2018 |  +----+-----------+------+---------+--------------------+-------+------+  1 row in set (0.00 sec) |
|  |
| * Display all courses whose course duration is 6 months.(use course table) |
| mysql> select \* from course;  +----+---------+----------+------------------------------------+  | ID | name | duration | summery |  +----+---------+----------+------------------------------------+  | 1 | PG-DAC | 6 | This course is designed by CDAC |  | 2 | DBDA | 6 | This course is designed by CDAC |  | 3 | Pre-DAC | 2 | This course is designed by CDAC |  | 4 | JAVA | 3 | This course is designed by IET |  | 5 | .NET | 3 | This course is designed by Infoway |  | 6 | DMC | 6 | This course is designed by CDAC |  | 7 | DSSD | 6 | This course is designed by CDAC |  +----+---------+----------+------------------------------------+  7 rows in set (0.00 sec)  mysql> select\* from course where duration =6;  +----+--------+----------+---------------------------------+  | ID | name | duration | summery |  +----+--------+----------+---------------------------------+  | 1 | PG-DAC | 6 | This course is designed by CDAC |  | 2 | DBDA | 6 | This course is designed by CDAC |  | 6 | DMC | 6 | This course is designed by CDAC |  | 7 | DSSD | 6 | This course is designed by CDAC |  +----+--------+----------+---------------------------------+  4 rows in set (0.00 sec) |
|  |
| * Display module details whose module duration is between 1 and 2, arrange the data in ascending order of module duration. (use module table) |
| mysql> select \* from modules where duration between 1 and 2 order by duration;  +----+----------+----------+  | ID | name | duration |  +----+----------+----------+  | 1 | Oracle | 1 |  | 2 | PHP | 1 |  | 3 | MySQL | 1 |  | 4 | Node | 1 |  | 5 | C++ | 1 |  | 6 | C | 1 |  | 9 | MongoDB | 1 |  | 11 | Hive | 1 |  | 12 | Python | 1 |  | 13 | Aptitude | 1 |  | 7 | JAVA1 | 2 |  | 8 | JAVA2 | 2 |  | 10 | NET | 2 |  +----+----------+----------+  13 rows in set (0.00 sec) |
|  |
| * Display all student with their voting rights, if the student is below 1980 then print the message “\*The student can vote” else print “The student cannot vote”. |
| mysql> select \*, case when dob< '1980-01-01'then 'student can vote' else 'student cannot vote' end as votingresult from student ;  +----+-----------+----------+------------+--------------------------+---------------------+  | ID | firstname | lastname | DOB | emailID | votingresult |  +----+-----------+----------+------------+--------------------------+---------------------+  | 1 | saleel | bagde | 1984-06-12 | saleel.bagde@gmail.com | student cannot vote |  | 2 | omkar | rokde | 1969-10-25 | omkar.rakde@gmail.com | student can vote |  | 3 | ulka | joshi | 1970-10-25 | ulka.joshi@gmail.com | student can vote |  | 4 | rahul | patil | 1982-10-31 | rahul.patil@gmail.com | student cannot vote |  | 5 | ruhan | bagde | 1984-01-12 | ruhan.bagde@gmail.com | student cannot vote |  | 6 | lala | prasad | 1980-12-01 | lala.prasad@gmail.com | student cannot vote |  | 7 | sharmin | bagde | 1986-12-14 | sharmin.bagde@gmail.com | student cannot vote |  | 8 | vrushali | bagde | 1984-12-29 | vrushali.bagde@gmail.com | student cannot vote |  | 9 | vasant | khande | 1992-10-26 | vasant.khande@gmail.com | student cannot vote |  | 10 | nitish | patil | 1990-10-26 | nitish.patil@gmail.com | student cannot vote |  | 11 | neel | save | 1975-10-30 | neel.save@gmail.com | student can vote |  | 12 | deep | save | 1986-11-30 | deep.save@gmail.com | student cannot vote |  | 13 | nrupali | save | 1981-12-01 | nrupali.save@gmail.com | student cannot vote |  | 14 | supriya | karnik | 1983-12-15 | supriya.karnik@gmail.com | student cannot vote |  | 15 | bandish | karnik | 1987-12-30 | bandish.karnik@gmail.com | student cannot vote |  | 16 | sangita | karnik | 1990-12-01 | sangita.karnik@gmail.com | student cannot vote |  | 17 | sangita | menon | 1989-10-26 | sangita.menon@gmail.com | student cannot vote |  | 18 | rahul | shah | 1982-06-12 | rahul.shah@gmail.com | student cannot vote |  | 19 | bhavin | patel | 1983-11-13 | bhavin.patel@gmail.com | student cannot vote |  | 20 | kaushal | patil | 1982-07-30 | kaushal.patil@gmail.com | student cannot vote |  | 21 | pankaj | gandhi | 1982-07-30 | pankaj.gandhi@gmail.com | student cannot vote |  | 22 | rajan | patel | 1982-07-30 | rajan.patel@gmail.com | student cannot vote |  | 23 | bhavin | patel | 1982-07-30 | bhavin.patel@gmail.com | student cannot vote |  | 24 | mukesh | bhavsar | 1982-07-30 | mukesh.bhavsar@gmail.com | student cannot vote |  | 25 | dilu | khande | 1982-07-30 | dilu.khande@gmail.com | student cannot vote |  | 26 | sonam | khan | 1972-05-13 | sonam.khan@gmail.com | student can vote |  | 27 | rohit | patil | 1976-12-31 | rohit.patil@gmail.com | student can vote |  | 28 | raj | bubber | 1982-02-28 | raj.bubber@gmail.com | student cannot vote |  +----+-----------+----------+------------+--------------------------+---------------------+  28 rows in set (0.00 sec) |
|  |
| * Display all distinct universities from student\_qualifications table. |
| mysql> select distinct university from student\_qualifications;  +-------------------------+  | university |  +-------------------------+  | Stanford University |  | Harvard University |  | University of Chicago |  | Yale University |  | California University |  | University of Florida |  | Pennsylvania University |  | Columbia University |  | University of Michigan |  | University of Ohio |  | University Maryland |  +-------------------------+  11 rows in set (0.00 sec) |
|  |
| * Display the second highest marks scored by any student in ‘BE’. |
| mysql> select marks from student\_qualifications where name='BE' order by marks desc limit 1;  +-------+  | marks |  +-------+  | 97 |  +-------+  1 row in set (0.00 sec)  mysql> select distinct marks from student\_qualifications where name='BE' order by marks desc limit 1 offset 1;  +-------+  | marks |  +-------+  | 87 |  +-------+  1 row in set (0.00 sec) |
|  |
| * Display the second lowest marks scored by any student in ‘BE’. |
| mysql> select marks from student\_qualifications where name='BE' order by marks limit 1;  +-------+  | marks |  +-------+  | 57 |  +-------+  1 row in set (0.00 sec)  mysql> select marks from student\_qualifications where name='BE' order by marks limit 1 offset 1;  +-------+  | marks |  +-------+  | 61 |  +-------+  1 row in set (0.00 sec) |
|  |
| * Display last 7 students. |
| mysql> select \* from student\_qualifications order by ID desc limit 7;  +----+-----------+------+----------+-------------------------+-------+------+  | ID | studentID | name | college | university | marks | year |  +----+-----------+------+----------+-------------------------+-------+------+  | 85 | 28 | MCA | Alaska | Harvard University | 64 | 2009 |  | 84 | 28 | 12 | Maryland | Columbia University | 68 | 2006 |  | 83 | 28 | 10 | Iowa | Yale University | 65 | 2004 |  | 82 | 27 | BE | Vermont | Pennsylvania University | 62 | 2006 |  | 81 | 27 | DIP | Maine | University of Florida | 60 | 2003 |  | 80 | 27 | 12 | Virginia | California University | 55 | 1999 |  | 79 | 27 | 10 | Alabama | University of Chicago | 50 | 1997 |  +----+-----------+------+----------+-------------------------+-------+------+  7 rows in set (0.00 sec) |
|  |