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| Hands-on Exercise Objective |
| **Objective:**  Associates would need to retrieve records using DQL statements as mentioned in the problem statement below.  **For the Associates:** Associates can refer to the oracle documentation present in the following link for the DQL syntax.  <http://docs.oracle.com/cd/B19306_01/server.102/b14200/toc.htm>   |  | | --- | | 1. Write a query which fetches and displays all the students who have an email id. 2. Write a query which displays the number of students in each branch. 3. Write a query which displays the marks and register number of all students who has scored marks > 50% . 4. Write a query which displays the student name, registration number and their GPA in descending order of GPA. 5. Write a query which displays the student information in ascending order of the student’s name. 6. Write a query which displays the information of students in ascending order of their age. 7. Write a query which will retrieve the registration number, student name, subject name , semester # and the respective marks of the subject. 8. Write a query which displays the student’s registration number, student name, marks and semester# for all semesters ordered by registration number and semester#. 9. Write a query to display the student name , registration number , subject code, subject name, marks and semester # of all the students who have scored more than 50%.   NOTE, the subject code and the subject name should be displayed in this particular format “Subject Code- Subject Name”.   1. Write a query to display the registration number and GPA of each student in such a way that the students who are eligible for scholarship are displayed first. 2. Write a query to display the registration number, student name, semester number and GPA of students such that students with high GPA are displayed on top. 3. Write a query to display registration number, student name, the marks of the students, and the weighted marks.   Weighted Marks= marks \* weightage %/100.   1. Write a query to display all the students whose name starts with “M”. 2. Writer a query which retrieves student name, registration number and student marks whose marks is between 60 and 100. 3. Writea query which retrieves student\_name, registration number and student marks whose name does not start with Character “J”. 4. Writea query which retrieves student name , registration number and marks of those subjects whose subject code is either EE01DCF or EC02MUP.   **Rule**: Do not use OR operator   1. Writea query which retrieves all the students whose name ends with “on”. 2. Writea query which retrieves the student name , registration number and their respective marks in all semesters whose has an email address. 3. Write a query to display student information such as name, branch in capital letters. 4. Write a query to displays all details in subject\_master in small letters. 5. Write a query to display the student name and branch in the following format, “<Student Name>with <registration number> is studying in Branch <branch>”. 6. Write two separate queries to display the registration number date of birth of all the students in the following formats  * **2011/07/23** * **July 23, 2011**  1. Write a query to display age of each student along with name, contact number and email id.   Age = Number of months between DOB and current date /12.   1. Write a query to display the registration number, student name and average marks secured by students in each semester. 2. Pick the maximum mark from the students\_marks and display the student registration number and name of those students who have secured the maximum mark.   **Rule**: Use sub query.   1. Pick the maximum marks secured in the subject “ EI05IP” and display the student name and registration number of the student who has secured it.   **Rule**: Use sub query.   1. Write a query to display total number of candidates eligible for scholarship. 2. Write a query to display the details of students who have secured maximum GPA in each semester. **Hint**: Use GROUPBY 3. Write a query to display the student name, registration number and GPA who are eligible for scholarship. 4. Write a query to display the average GPA for each semester. Display the semester number and the average.   **Hint**: Average = Total GPA of all students in a semester/total number of students in a semester  **Rule**: Use AVG function   1. Create a view “STUDENT\_GPA\_<employee\_id>” which has the following details student name, registration number, semester number and GPA. 2. From the view STUDENT\_GPA \_<employee\_id> display student name, registration number, semester number and GPA, whose GPA is greater than 5. 3. Create a view “STUDENT\_AVERAGE\_GPA\_<employee\_id>” which has the following details. Student name, registration number and average GPA he has scored across semesters. 4. From the view STUDENT\_AVERAGE\_GPA\_<employee\_id> diplay Student name, registration number and average GPA whose average GPA is greater than 7. 5. Write a query which will display all the student records , if the student email id is null it should be displayed as “no valid email address”. 6. Write a query which will display the student name, branch,registration number , semester number and result.Display the full name of EEE as well as ECE branch as mentioned below,   If EEE then ‘Electrical and Electronic Engineering’  If ECE then Electronics and Communication Engineering. | |