

SQL Assignment

Q1. Import pets.csv workbook in your SQL server. Identify the primary key in the table and write a query:

- a) To fetch unique values of "Age" field
- b) To fetch unique combinations of Gender and Age column
- c) To fetch the names of the pets whose name contains letter "u" in the name
- d) To fetch count of rows for each "Kind" present in the table
- e) To find the average age of each "Kind" of pets
- f) To print all records where Gender = "Female" and Kind = "Dog"
- g) To find the count of records for a combination of "Kind" and "Gender"
- h) To fetch all the records and order them by Gender ascending and Age descending
- i) To fetch all the "Kind" values that have maximum age greater than 13
- j) To fetch the 15 records from the table
- k) To fetch the names that have 5 letters in their name
- l) To fetch the count of distinct "Age" in the table
- m) To fetch the records where Age is between 5 and 15

Q2. Import Employees.csv. What is the primary key in the table and write a query to:

- a) Find the length of field email
- b) Find count of employees in each department_id
- c) To fetch the no. of years each employee has served the company till today
- d) Create a new column called salary_buckets by creating buckets using the below mapping.

Salary	Salary_bucket
Salary <= 7000	Low
Salary > 7000 and Salary < 20000	Medium
Salary >= 20000	High

- e) To replace "sqltutorial.org" with "abccompany.com" present in Email column
- f) To combine First Name and Last Name of employees and create another column called Full Name. Combine both the names in the format. (Last Name, First Name)
- g) Create table Emp1 from the table by filtering records where salary between 7000 and 16000
- h) Create table Emp2 from the table by filtering records where manager_id is in 100 and 114
- i) Fetch the employee_id, first_name and last_name from both the tables(Emp1 and Emp2, part g and h of this question) which are present in Emp1 but not in Emp2.

Q3. Having and where are both used for filtering of data. What is the difference between the two. Can we use having and where in same query?

Q4. What is the difference between Union and Union All.

Q5. What will be the output of the below queries.

- a) `Select Sum(Null), Count(Null);`
- b) `Select substring('Prepleaf',0,0);`
- c) `Select Coalesce(Null,Null,3);`