

CSE 348 Database Management Systems

ASSIGNMENT 6

Write the proper SQL statement for the following operations.

A) Get customer name, salesman name, product name, sale date of a sale, total price ($\text{price} + \text{price} * \text{comission_ratio}$), total price with VAT ($1.08 * \text{total_price}$) of all sales which have a total price bigger than 15 TL.

When you are retrieving result set, you should obey some rules:

- 1) Add TL after all price values, e.g, 900 TL, etc...
- 2) All Customer Names, Salesman Names and Product Names should be in uppercase form

B) Get customer name, salesman name, product name, sale date of a sale, total price ($\text{price} + \text{price} * \text{comission_ratio}$), total price with VAT ($1.18 * \text{total_price}$) of all sales done by salesman Deniz.

When you are retrieving result set, you should obey some rules:

- 1) Customer names, salesman names, product names should be in uppercase form.
- 2) All price values should end with TL.

C) Get customer name, salesman name, product name, sale date of a sale, total price ($\text{price} + \text{price} * \text{comission_ratio}$), total price with VAT ($1.08 * \text{total_price}$) of all sales done by salesman Ali.

When you are retrieving result set, you should obey some rules:

- 1) Customer names, salesman names, product names should be in uppercase form.
- 2) All price values should end with TL.

D) Write a detailed report for the sales. For each sales, get product name, the salesman who did the sale, customer name who bought the product, the category of the product name, price of the product, total sales rate which is calculated with $\text{price} + \text{price} * \text{commission_rate}$ and the sales date.

E) Write a detailed report referencing the salesman. For each salesman, get name of the salesman, hire date of the salesman, his/her salary, if he did a sale, get how many items s/he sold, else write 0 rather than NULL for this field.

When you are retrieving result set for D and E, you should obey some rules:

- 1) All names should be in uppercase form.
- 2) Add TL after all price values, e.g, 900 TL, etc...
- 3) You should write one outer SQL query consisting of joins.

F) Report invoice of the customer Ayşe with the information below:

- 1) Write the category name of the products purchased in upper case form.
- 2) Write the product name purchased in upper case form.
- 3) Write the price of the purchased product.
- 4) Write the total price of the purchased product. Add TL after it.
- 5) Write the total price with VAT. Add TL after it. (See formulae part for calculation of VAT of a product.)
- 6) Write the date of the sale in MM-DD-YYYY form.

- 7) At the end line, you should write the total purchase price, the total purchase price with VAT. Add TL after these areas.
- 8) You should write one outer SQL query.

Hint: Use UNION statements for combining rows of two different tables.

The fields of the result set should be like in below:

Category Name	Product Name	Product Price	Total Price	Total Price with VAT.	Date of Sale.
...
...
TOTAL TL	... TL	... TL	...

FORMULA PART:

- 1) $\text{total_price} = (1 + \text{commission_ratio}) * \text{price}$
- 2) $\text{VAT with total_price} = 1.08 * \text{total_price}$

!! Do not forget that we can change the values in tables, so you should write the proper SQL statements. Do not use hardcoded values in SQL statements. If we fetch such a case, you will get 0 in your assignment!!!

Write all your statements **in a single SQL file** and name it with your name and surname, attached in front of "Assignment6" (e.g. "**JohnDoe_Assignment6.sql**"). Submit your work through the "**CSE 348 - Assignment 6**" link on the course page at COADSYS.