**Functions**

**Reference links**

* Single Row Functions

<https://docs.oracle.com/cd/E49933_01/server.770/es_eql/src/ceql_functions_numeric.html>

[**https://www.oracle-dba-online.com/sql/character-functions-in-oracle.htm**](https://www.oracle-dba-online.com/sql/character-functions-in-oracle.htm)

<https://www.geeksforgeeks.org/sql-character-functions-examples/>

[**https://www.oracletutorial.com/oracle-date-functions/**](https://www.oracletutorial.com/oracle-date-functions/)

<https://www.geeksforgeeks.org/sql-general-functions-nvl-nvl2-decode-coalesce-nullif-lnnvl-nanvl/>

<https://www.tutorialspoint.com/sql_certificate/conditional_expressions.htm>

<https://www.tutorialspoint.com/sql_certificate/conversion_functions.htm>

* Aggregate functions and Group By clause

<https://www.tutorialspoint.com/sql_certificate/using_the_group_functions.htm>

<https://www.techonthenet.com/oracle/group_by.php>

* Conditional Expressions

<https://www.oracletutorial.com/oracle-basics/oracle-case/>

<https://oracle-base.com/articles/9i/case-expressions-and-statements-9i>

**Video Links**

* Single Row Functions

<https://www.youtube.com/playlist?list=PLRRd0AFM3aYqXL2kpnIgQnsk-F6PvQr1p>

<https://www.youtube.com/watch?v=Utdm8rygB_Y>

<https://www.youtube.com/watch?v=ypl2LJhqU6w>

* Aggregate functions and Group By clause

<https://www.youtube.com/watch?v=ujfdyqabLxg>

<https://www.youtube.com/watch?v=098hXV0q9ps>

<https://www.youtube.com/watch?v=TYD6gWP3jBg>

* Conditional Expressions

<https://www.youtube.com/watch?v=YkAjxN2DHhA>

**Assignments**

Below assignments are based on tables in Northwind schema

1. Find the Total Number of Units Ordered of Product ID 3.
2. Find the Earliest and Latest Dates of Hire.
3. Retrieve the number of employees in each city.
4. Find the number of sales representatives in each city that contains at least 2 sales representatives. Order by the number of employees.
5. Write a query to display Employee name, birth date, hire date, city and country of every Employee hired in 2011. Display birth date of every employee in the format ‘2nd August 2016’.
6. Create a report that shows the total number of orders by Customer since December 31, 1996. The report should only return rows for which the NumOrders is greater than 15.
7. Create a report that shows the total quantity of products (from the Order\_Details table) ordered. Only show records for products for which the quantity ordered is fewer than 200.
8. Display employee id, employee name, birthdate, city for all the employees. Display employee name as combination of TitleOFCourtesy and Firstname
9. Display all employee details along with phone number. Phone number should be displayed without Country code.( Country code is mentioned in bracket (71) )
10. Display customer’s id , company name, address, city and region. Any column should not display null values in the report. Display some proper alternative value in place of null.
11. Display Joining date along with probation period end date for each employee. Assume probation period is for 3 months)
12. Find the tenure of each employee in the company.
13. Display employeeid, full name of an employee in upper case, job title in Lower case for all the employees.