**Combining Data**

**Reference links**

* Set Operators

<https://docs.oracle.com/cd/B19306_01/server.102/b14200/queries004.htm>

<https://www.javatpoint.com/oracle-union>

* Cartesian Product

<https://www.tutorialspoint.com/sql/sql-cartesian-joins.htm>

<http://www.dba-oracle.com/t_garmany_9_sql_cross_join.htm>

* Inner Joins and Natural Join

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

<https://www.w3resource.com/oracle/joins/oracle-inner-join.php>

<https://www.geeksforgeeks.org/difference-between-natural-join-and-inner-join-in-sql/>

* Self-Referencing Table Joins

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

<https://www.w3schools.com/sql/sql_join_self.asp>

* Outer Join

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

<https://www.javatpoint.com/oracle-outer-join>

**Video Links**

* Set Operators

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

<https://www.youtube.com/watch?v=mLo3PDRJ2kI>

<http://www.rebellionrider.com/intersect-and-minus-sql-set-operators-in-oracle-rebellionrider/>

* Cartesian Product

<https://www.youtube.com/watch?v=mdB6DzVIc3A>

* Inner Join and Natural Join

<https://www.youtube.com/watch?v=h9icwFCJ_84>

<https://www.youtube.com/watch?v=dMPnWMTR9VU>

* Self-Referencing Table Joins

<https://www.youtube.com/watch?v=G4vO83UUzek>

* Outer Join

<https://www.youtube.com/watch?v=MmCqBzY8Y9E>

<https://www.youtube.com/watch?v=McrLY7gA_nA>

**Assignments**

Based on Northwind Schema design

* Get the names and phone numbers of all shippers, customers, and suppliers together.
* Create a report showing employee orders. (columns: employee firstname, lastname and order id).
* Create a report to display category id, category name, productid, product name, unit price for all the products in Beverages & Confections category.
* Display product names and corresponding suppliername for all the products in seafood category.
* Display all the supplier details along with Products they supply (Using basic Inner join condition and Natural join syntax).
* Create a report to display all the Supplier details along with corresponding product details. Report should include all Supplier details whether corresponding product exist or not.
* Create a report to display Category name, product name, unit price, units in stock. Report should contain all the category names whether corresponding product exists or not. Also, report should contain all the product details whether they belong to any category or not.
* Display Employee first name, last name, title along with corresponding Manager details.

Note: ReportsTo column in Employee table references EmployeeId column in the same table.

* Display details of all the Suppliers whose country is same as Country of ‘Robb Merchant’.