

# PL/SQL Temelleri

Oturum -1

Temel SQL

# Canburak Tümer

- Ege Üni. Bil. Müh., 2007-2012
- Turkcell Teknoloji, IMS, NODI 2011 Temmuz
- Oracle Consulting, DWH&BI Consultant 2012 Ekim

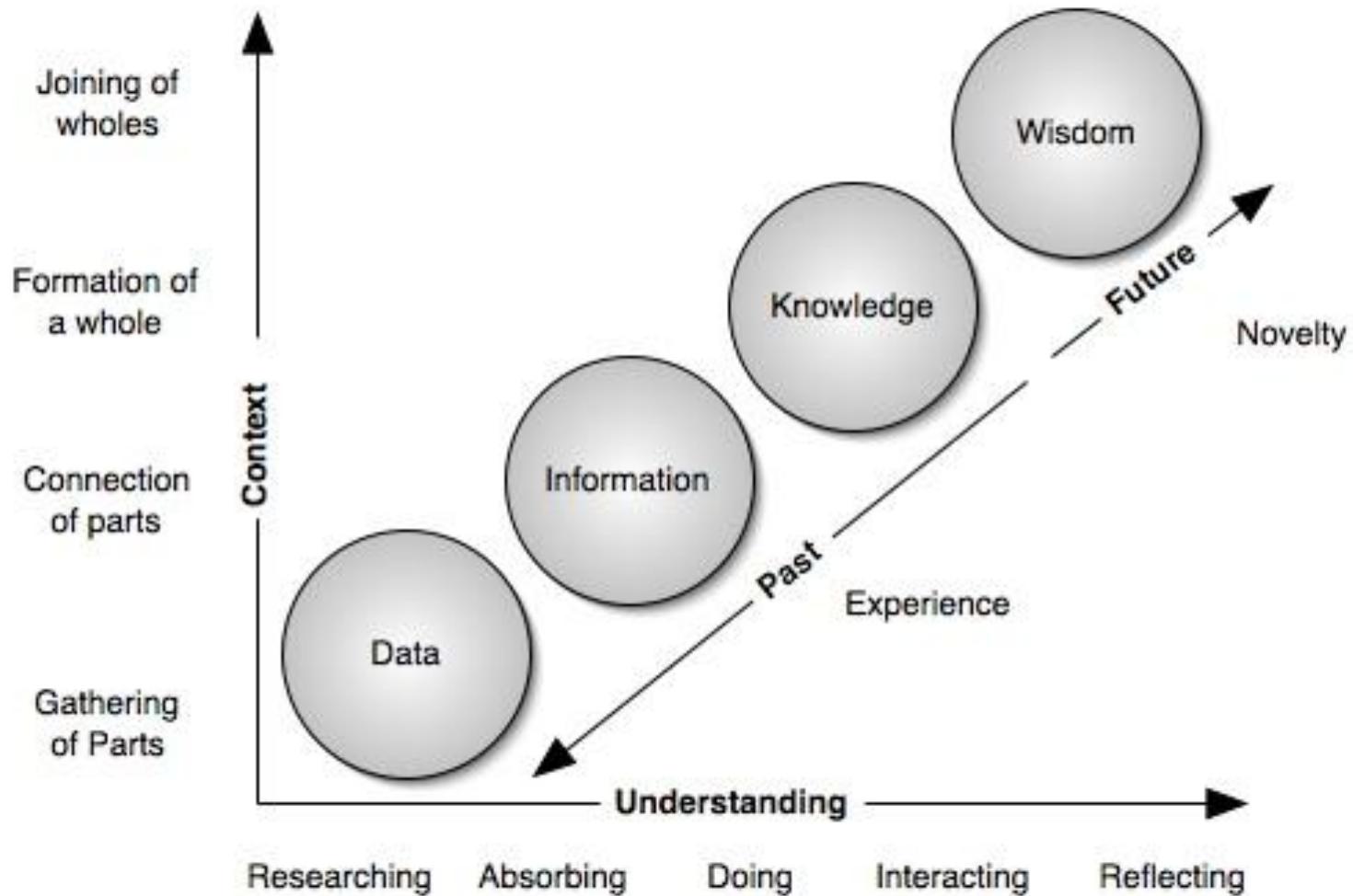
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# Data -> Wisdom



# Database, Relational Database

- Kolon x Satır = Tablo

IngID	strLastName	strFirstName	strDept	dteHireDate	IngSupervisorID
1	James	Ted	MK	01/04/1983	41
3	Harper	Hanna	ES	19/04/1982	30
4	Packer	Fenny	MK	15/01/1987	41
5	Binder	Julia	MS	17/02/1985	23
7	Sanders	Maria	ES	17/08/1985	3
8	Easter	Connie	EE	20/05/1992	72
10	Martin	Jane	EE	07/06/1989	27
11	Binga	Allison	EE	01/09/1991	27
12	Conner	Bill	CE	08/03/1982	71
13	Osowski	Dominick	SA	18/07/1995	30
14	Binga	Sam	SS	05/07/1986	19
15	Abel	Murray	CE	25/11/1988	12
16	Abot	Robert	MK	18/09/1984	41
17	Zambito	Joseph	CE	09/07/1986	71

# RDBMS

- Relational Database Management System/Software
- Oracle DB
- MySQL
- PostgreSQL
- MSSQL
- MS Access

# Present

- OLTP
- OLAP / BI
- Data Warehouse
- Data Mining

# Future

- NoSQL
- Big Data
- Fast Data (CEP)

# SQL

- Structured Query Language
- DDL
- DML

[www.sqlfiddle.com](http://www.sqlfiddle.com)

[www.canburaktumer.com/istanbulhs/index.html](http://www.canburaktumer.com/istanbulhs/index.html)

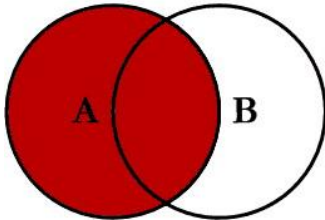
# DML

- Select
- Where
- Order by
- Join
- Count, Sum, Max, Min
- Group by
- Insert
- Update
- Delete

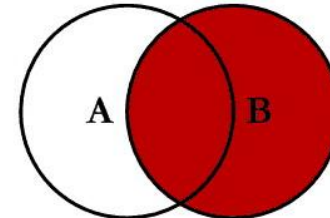


# Joins Visualized

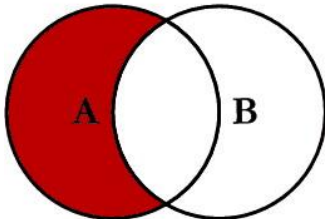
## SQL JOINS



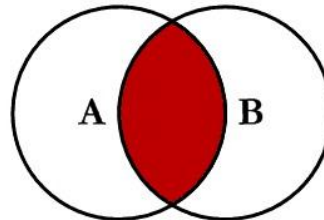
```
SELECT <select_list>  
FROM TableA A  
LEFT JOIN TableB B  
ON A.Key = B.Key
```



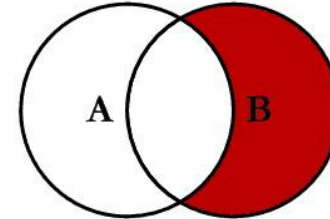
```
SELECT <select_list>  
FROM TableA A  
RIGHT JOIN TableB B  
ON A.Key = B.Key
```



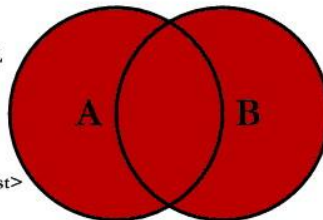
```
SELECT <select_list>  
FROM TableA A  
LEFT JOIN TableB B  
ON A.Key = B.Key  
WHERE B.Key IS NULL
```



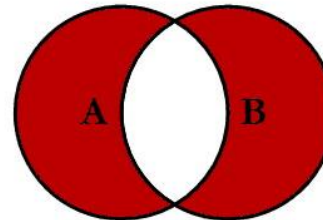
```
SELECT <select_list>  
FROM TableA A  
INNER JOIN TableB B  
ON A.Key = B.Key
```



```
SELECT <select_list>  
FROM TableA A  
RIGHT JOIN TableB B  
ON A.Key = B.Key  
WHERE A.Key IS NULL
```



```
SELECT <select_list>  
FROM TableA A  
FULL OUTER JOIN TableB B  
ON A.Key = B.Key
```



```
SELECT <select_list>  
FROM TableA A  
FULL OUTER JOIN TableB B  
ON A.Key = B.Key  
WHERE A.Key IS NULL  
OR B.Key IS NULL
```

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# DDL

- Create Table
- Drop Table
- Create View
- Drop View
- Index & Constraints