

FROM Orders

17/09/2025

Exercise 1

1) SELECT \*

From Employees

2) SELECT Distinct Department

FROM Employees

Department

IT

HR

Finance

Marketing

3) SELECT First-name, last-name

FROM Employees

ORDER By ~~DESC~~ Salary DESC

First	First-name	Last	last_name
	Emily		Davis
	Mike		Johnson
	Robert		wilson
	John		Doe
	Sarah		Brown
	B Daniel		Clark
	David		White
	Jessica		Moore
	Laura		Hall

4) SELECT First-name, Last-name, Salary  
 FROM Employees  
 ORDER BY Salary DESC  
 Limit 5

First-name	Last name	Salary
Emily	Davis	62 000
Mike	Johnson	60 000
Robert	Wilson	59 000
John	Doe	55 000
Sarah	Brown	53 000

5) SELECT First-name, Department  
 FROM Employees  
 WHERE Department IN = ("IT")

First-name	Department
John	IT
Sarah	IT
Emily	IT
Laura	IT

6) SELECT First-name, Last-name, Salary  
 FROM Employees  
 WHERE Department = "Finance" AND Salary > 58 58000

First-name	Department	Salary
Emily	Finance	59 000
Mike	Finance	60 000

7 SELECT First-name, Department  
FROM Employees  
WHERE Department = "HR" OR Department = "Marketing";

8 SELECT First-name, Department  
FROM Employees  
WHERE Department != "IT"

9 SELECT First-name - Department  
FROM Employees  
WHERE Department = "HR" OR Department = "Marketing"  
WHERE Department IN ("HR", "IT") OR Department = "Finance"

10 SELECT First-name, department, Salary, City  
FROM Employees  
WHERE Department = "IT" AND Salary > 50000 AND City = "NY"

11 SELECT first-name, Department last-name,  
FROM Employees  
WHERE Department = "Finance" OR Department = "Marketing"  
AND Salary > 52000  
ORDER BY Salary DESC

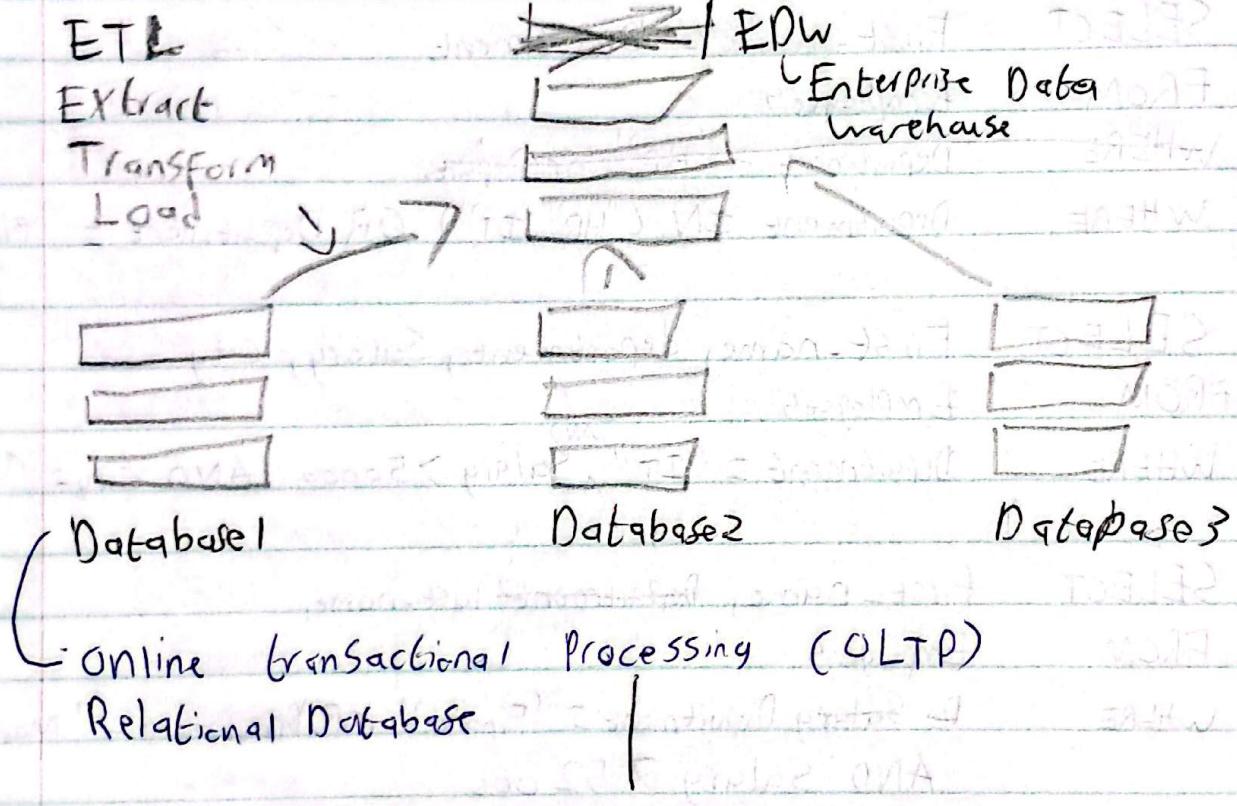
12 SELECT city Distinct City  
FROM Employees  
WHERE City NOT IN ("IT", "HR")

13 SELECT First-name  
FROM Employees  
WHERE Department NOT IN ("Finance") AND Salary > 50000  
ORDER BY hire-date AS ASC

14 SELECT First\_name, Department, City  
 FROM Employees  
 WHERE City = "Chicago" OR City = "Los Angeles" AND  
 Department = "IT" OR Department = "Marketing"  
 Limit 3

17/09/2025

Online analytical processing  
 Allows complex SQL



normally works during  
 during working hours

- > Data from a data warehouse comes from different sources
- > Since Data comes from different sources, we need to combine different table in order to perform analysis.

1)

ID	First-name	Last-name	Department	Salary	Hire-date	City
1	John	Doe	IT	55000	2018-06-15	NY
2	Jane	Smith	HR	48000	2019-07-20	Chicago
3	Mike	Johnson	Finance	60000	2018-09-30	LA
4	Sarah	Brown	IT	53000	2021-03-25	NY
5	David	White	Marketing	52000	2016-04-10	San Fran
6	Emily	Davis	IT	62000	2015-02-14	Chicago
7	Robert	Wilson	Finance	59000	2014-10-01	Houston
8	Jessica	Moore	HR	51000	2018-05-22	LA
9	Daniel	Clark	Marketing	53000	2022-06-01	Chicago
10	Laura	Hall	IT	50000	2020-08-10	San Fran

7)

First-name	Department
Jane	HR
David	Marketing
Jessica	HR
Daniel	Marketing

8)

First-name	Department
Jane	HR
Mike	Finance
David	Marketing
Robert	Finance
Jessica	HR
Marketing	Marketing
Daniel	Marketing

9)

First-name	department
John	IT
Jane	HR
Mike	Finance
Sarah	IT
Emily	IT
Robert	Finance
Jessica	HR
Laura	IT

10)

First-name	department	Salary	City
John	IT	55000	New York
Sarah	IT	53000	New York

11)

First-name	Last-name
Mike	Johnson
Robert	Wilson

12)

City
Los Angeles
San Francisco
Houston
Chicago

13)

First-name
Emily
David
JESSICA
John
Sarah
Daniel

14)

First-name	Department,	City
Emily	IT	Chicago
Daniel	Marketing	chicago