

IBM DB0101EN **SQL** and Relational Databases 101





Discussion <u>Course</u> **Progress** <u>Dates</u> Resources



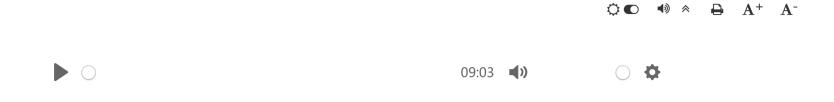




Lab 4: String Patterns, Sorting & Grouping

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In case you are having issues viewing the lab instructions below or prefer to view the instructions in a new browser tab, <u>click here</u>.





Hands-on Lab: String Patterns, Sorting and Grouping

Estimated time needed: 35 minutes

In this lab, you will go through some SQL practice problems that will provide hands-on experience with string patterns, sorting result sets and grouping result sets.

Software Used in this Lab

In this lab, you will use an IBM Db2 Database. Db2 is a Relational Database Management System (RDBMS) from IBM, designed to store, analyze and retrieve data efficiently.

To complete this lab you will utilize a Db2 database service on IBM Cloud. If you did not already complete this lab task earlier in this module, you will not yet have access to Db2 on IBM Cloud, and you will need to follow the lab below first:

• Hands-on Lab: Sign up for IBM Cloud, Create Db2 service instance and Get started with the Db2 console

Database Used in this Lab

The database used in this lab is an internal database. You will be working on a sample HR database. This HR database schema consists of 5 tables called EMPLOYEES, JOB_HISTORY, JOBS, DEPARTMENTS and LOCATIONS. Each table has a few rows of sample data. The following diagram shows the tables for the HR database:

SAMPLE HR DATABASE TABLES

EMP_ID	F_NAME	L_NAME	SSN	B_DATE	SEX	ADDRESS	JOB_ID	SALARY	MANAGER_ID	DEP_ID
E1001	John	Thomas	123456	1976-01-09	М	5631 Rice, OakPark,IL	100	100000	30001	2
E1002	Alice	James	123457	1972-07-31	F	980 Berry In, Elgin,IL	200	80000	30002	5
E1003	Steve	Wells	123458	1980-08-10	М	291 Springs, Gary,IL	300	50000	30002	5

JOB_HISTORY				JOBS	JOBS					
EMPL_ID	START_DATE	JOBS_ID	DEPT_ID	JOB_IDENT	JOB_TITLE	MIN_SALARY	MAX_SALARY			
E1001	2000-01-30	100	2	100	Sr. Architect	60000	100000			
E1002	2010-08-16	200	5	200	Sr.SoftwareDeveloper	60000	80000			
E1003	2016-08-10	300	5	300	Jr.SoftwareDeveloper	40000	60000			

E1003	2016-08-10	300 5		300	Jr.SoftwareDeveloper	40000	6000
DEPARTMEN	ITS			LOCAT	TIONS		
DEPT_ID_DEP	DEP_NAME	MANAGER_ID	LOC_ID	LOCT_II	D DEP_ID_LO	oc	
2	Architect Group	30001	L0001	L0001	2		
5	Software Developm	ent 30002	L0002	L0002	0002 5		
7	Design Team		L0003	L0003	7		
5	Software	30004	L0004				

Previous Next >

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