

MYSQL Exercises

In this exercise you will learn the following:

- Create database.
- DDL – Create Tables
- Show Table Structure
- Insert Sample Data
- Basic Queries

Figure 1 and Figure 2 show table structure and sample data for Aman Services Sdn Bhd.

Figure 1: DEPARTMENT table

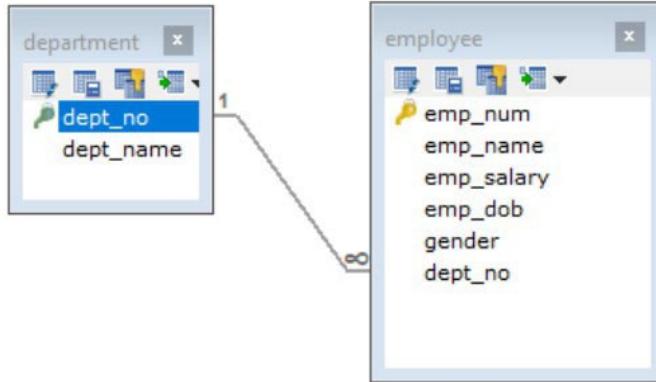
name	type	pk	DEPT_NO	DEPT_NAME
DEPT_NO	CHAR(2)	1	FN	Finance
DEPT_NAME	VARCHAR(40)	0	IT	Information Technology
			HR	Human Resource

Figure 2: EMPLOYEE table

name	type	notnull	pk		
EMP_NUM	CHAR(2)	0	1		
EMP_NAME	VARCHAR(40)	0	0		
EMP_SALARY	DECIMAL(10,2)	0	0		
EMP_DOB	DATE	0	0		
EMP_GENDER	CHAR(1)	0	0		
DEPT_NO	CHAR(2)	0	0		
EMP_NUM	EMP_NAME	EMP_SALARY	EMP_DOB	EMP_GEN	DEPT_NO
E1	Ahmad Zaki	3500.5	1993-01-12	M	IT
E2	Siti Mariam	4200	1994-05-21	F	HR
E3	John Lim	3900	1992-03-08	M	IT
E4	Nur Aisyah	4100	1995-11-13	F	FN
E5	Faizal Rahim	4500	1990-07-18	M	HR
E6	Kavitha Devi	3800	1994-09-30	F	IT
E7	Daniel Wong	4300	1993-12-25	M	FN
E8	Laila Hassan	4700	1991-04-04	F	HR
E9	Muthu Kumar	3600	1996-06-16	M	IT
E10	Zarina Idris	4000	1992-02-28	F	IT
E11	Chong Wei	5200	1989-10-13	M	FN
E12	Farah Nadia	3900	1993-08-07	F	HR
E13	Hafizuddin	3500	1997-03-15	M	IT
E14	Joanne Lee	4900	1990-01-01	F	FN
E15	Rashid Omar	3700	1994-10-19	M	HR

Using SQLYog/PHPmyadmin/HeidiSQL, write SQL for the following questions:

1. Create database **companyDB**
2. Create table **DEPARTMENT** and **EMPLOYEE** with primary key and foreign key constraint based on the following schema.



3. To display the created table structure
4. By referring sample data in Figure 1 & 2, write SQL to insert above data.
5. View entire data in the **DEPARTMENT** and **EMPLOYEE** table.
6. Write SQL to produce report for the following questions:
 - a. Find the number of employees based on department name.
 - b. List all employee information who has the lowest salary.
 - c. List all employees who working in “Finance” and “Human Resource” department.
 - d. List employee name who age is more than 40 years old.