

## CASE STUDY

Create the Following Table

LOCATION	
Location_ID(PK)	City
122	New York
123	Dallas
124	Chicago
167	Boston

DEPARTMENT		
Department_Id(PK)	Name	Location_Id(FK)
10	Accounting	122
20	Sales	124
30	Research	123
40	Operations	167

JOB	
Job_ID	Designation
667	Clerk
668	Staff
669	Analyst
670	Sales Person
671	Manager
672	President

## Employee

Empl yee_Id	Last _Name	First _Name	Middle _Name	Job _Id(FK)	Manager _Id(FK)	Hire Date	Salary	Comm	Department _Id(FK)
7369	SMITH	JOHN	Q	667	7902	17-DEC-84	800	NULL	20
7499	ALLEN	KEVIN	J	670	7698	20-FEB-85	1600	300	30
7505	DOYLE	JEAN	K	671	7839	04-APR-85	2850	NULL	30
7506	DENNIS	LYNN	S	671	7839	15-MAY-85	2750	NULL	30
7507	BAKER	LESLIE	D	671	7839	10-JUN-85	2200	NULL	40
7521	WARK	CYNTHIA	D	670	7698	22-FEB-85	1250	500	30

### SIMPLE QUERIES:

1. LIST ALL THE EMPLOYEE DETAILS.
2. LIST ALL THE DEPARTMENT DETAILS
3. LIST ALL JOB DETAILS.
4. LIST ALL THE LOCATIONS.
5. LIST OUT THE FIRSTNAME, LASTNAME, SALARY, COMMISSION FOR ALL EMPLOYEES.
6. LIST OUT EMPLOYEEID, LAST NAME, DEPARTMENT ID FOR ALL EMPLOYEES AND ALIAS EMPLOYEEID AS "ID OF THE EMPLOYEE", LAST NAME AS "NAME OF THE EMPLOYEE", DEPARTMENTID AS "DEP\_ID".
7. LIST OUT THE EMPLOYEES ANNUAL SALARY WITH THEIR NAMES ONLY.

### WHERE CONDITION:

1. LIST THE DETAILS ABOUT "SMITH"
2. LIST OUT THE EMPLOYEES WHO ARE WORKING IN DEPARTMENT 20.
3. LIST OUT THE EMPLOYEES WHO ARE EARNING SALARY BETWEEN 3000 AND 4500.
4. LIST OUT THE EMPLOYEES WHO ARE WORKING IN DEPARTMENT 10 OR 20.
5. FIND OUT THE EMPLOYEES WHO ARE NOT WORKING IN DEPARTMENT 10 OR 30.
6. LIST OUT THE EMPLOYEES WHOSE NAME STARTS WITH 'S'.
7. LIST OUT THE EMPLOYEES WHOSE NAME STARTS WITH 'S' AND ENDS WITH 'H'.
8. LIST OUT THE EMPLOYEES WHOSE NAME LENGTH IS 4 AND START WITH 'S'.
9. LIST OUT EMPLOYEES WHO ARE WORKING IN DEPARTMENT 10 AND DRAW THE SALARIES MORE THAN 3500.
10. LIST OUT THE EMPLOYEES WHO ARE NOT RECEIVING COMMISSION.

## ORDER BY CLAUSE:

1. LIST OUT THE EMPLOYEE ID, LAST NAME IN ASCENDING ORDER BASED ON THE EMPLOYEE ID.
2. LIST OUT THE EMPLOYEE ID, NAME IN DESCENDING ORDER BASED ON SALARY.
3. LIST OUT THE EMPLOYEE DETAILS ACCORDING TO THEIR LAST-NAME IN ASCENDING ORDER AND
4. LIST OUT THE EMPLOYEE DETAILS ACCORDING TO THEIR LAST-NAME IN ASCENDING ORDER AND THEN ON DEPARTMENT\_ID IN DESCENDING ORDER.

## GROUP BY & HAVING CLAUSE

1. HOW MANY EMPLOYEES WHO ARE IN DIFFERENT DEPARTMENTS WISE IN THE ORGANIZATION.
2. LIST OUT THE DEPARTMENT WISE MAXIMUM SALARY, MINIMUM SALARY, AVERAGE SALARY OF THE EMPLOYEES.
3. LIST OUT JOB WISE MAXIMUM SALARY, MINIMUM SALARY, AVERAGE SALARIES OF THE EMPLOYEES.
4. LIST OUT THE NUMBER OF EMPLOYEES JOINED IN EVERY MONTH IN ASCENDING ORDER.
5. LIST OUT THE NUMBER OF EMPLOYEES FOR EACH MONTH AND YEAR, IN THE ASCENDING ORDER BASED ON THE YEAR, MONTH.
6. LIST OUT THE DEPARTMENT ID HAVING ATLEAST FOUR EMPLOYEES.
7. HOW MANY EMPLOYEES JOINED IN JANUARY MONTH.
8. HOW MANY EMPLOYEES JOINED IN JANUARY OR SEPTEMBER MONTH.
9. HOW MANY EMPLOYEES WERE JOINED IN 1985?
10. HOW MANY EMPLOYEES WERE JOINED EACH MONTH IN 1985.
11. HOW MANY EMPLOYEES WERE JOINED IN MARCH 1985?
12. WHICH IS THE DEPARTMENT ID, HAVING GREATER THAN OR EQUAL TO 3 EMPLOYEES JOINED IN APRIL 1985?

## JOINS

1. LIST OUT EMPLOYEES WITH THEIR DEPARTMENT NAMES.
2. DISPLAY EMPLOYEES WITH THEIR DESIGNATIONS.
3. DISPLAY THE EMPLOYEES WITH THEIR DEPARTMENT NAMES AND REGIONAL GROUPS.
4. HOW MANY EMPLOYEES WHO ARE WORKING IN DIFFERENT DEPARTMENTS AND DISPLAY WITH DEPARTMENT NAMES.
5. HOW MANY EMPLOYEES WHO ARE WORKING IN SALES DEPARTMENT.
6. WHICH IS THE DEPARTMENT HAVING GREATER THAN OR EQUAL TO 5 EMPLOYEES AND DISPLAY THE DEPARTMENT NAMES IN ASCENDING ORDER.
7. HOW MANY JOBS IN THE ORGANIZATION WITH DESIGNATIONS.
8. HOW MANY EMPLOYEES ARE WORKING IN "NEW YORK".
9. DISPLAY THE EMPLOYEE DETAILS WITH SALARY GRADES.
10. LIST OUT THE NO. OF EMPLOYEES ON GRADE WISE.
11. DISPLAY THE EMPLOYEE SALARY GRADES AND NO. OF EMPLOYEES BETWEEN 2000 TO 5000 RANGE OF SALARY.

12. DISPLAY THE EMPLOYEE DETAILS WITH THEIR MANAGER NAMES.
13. DISPLAY THE EMPLOYEE DETAILS WHO EARN MORE THAN THEIR MANAGERS SALARIES.
14. SHOW THE NO. OF EMPLOYEES WORKING UNDER EVERY MANAGER.
15. DISPLAY EMPLOYEE DETAILS WITH THEIR MANAGER NAMES.
16. DISPLAY ALL EMPLOYEES IN SALES OR OPERATION DEPARTMENTS.

## SET OPERATORS

1. LIST OUT THE DISTINCT JOBS IN SALES AND ACCOUNTING DEPARTMENTS.
2. LIST OUT ALL THE JOBS IN SALES AND ACCOUNTING DEPARTMENTS.
3. LIST OUT THE COMMON JOBS IN RESEARCH AND ACCOUNTING DEPARTMENTS IN ASCENDING ORDER.

## SUB QUERIES

1. DISPLAY THE EMPLOYEES LIST WHO GOT THE MAXIMUM SALARY.
2. DISPLAY THE EMPLOYEES WHO ARE WORKING IN SALES DEPARTMENT.
3. DISPLAY THE EMPLOYEES WHO ARE WORKING AS 'CLERCK'.
4. DISPLAY THE LIST OF EMPLOYEES WHO ARE LIVING IN "NEW YORK".
5. FIND OUT NO. OF EMPLOYEES WORKING IN "SALES" DEPARTMENT.
6. UPDATE THE EMPLOYEES SALARIES, WHO ARE WORKING AS CLERK ON THE BASIS OF 10%.
7. DELETE THE EMPLOYEES WHO ARE WORKING IN ACCOUNTING DEPARTMENT.
8. DISPLAY THE SECOND HIGHEST SALARY DRAWING EMPLOYEE DETAILS.
9. DISPLAY THE N'TH HIGHEST SALARY DRAWING EMPLOYEE DETAILS.
10. LIST OUT THE EMPLOYEES WHO EARN MORE THAN EVERY EMPLOYEE IN DEPARTMENT 30.
11. LIST OUT THE EMPLOYEES WHO EARN MORE THAN THE LOWEST SALARY IN DEPARTMENT 30.
12. FIND OUT WHOSE DEPARTMENT HAS NOT EMPLOYEES.
13. FIND OUT WHICH DEPARTMENT DOES NOT HAVE ANY EMPLOYEES.
14. FIND OUT THE EMPLOYEES WHO EARN GREATER THAN THE AVERAGE SALARY FOR THEIR DEPARTMENT.