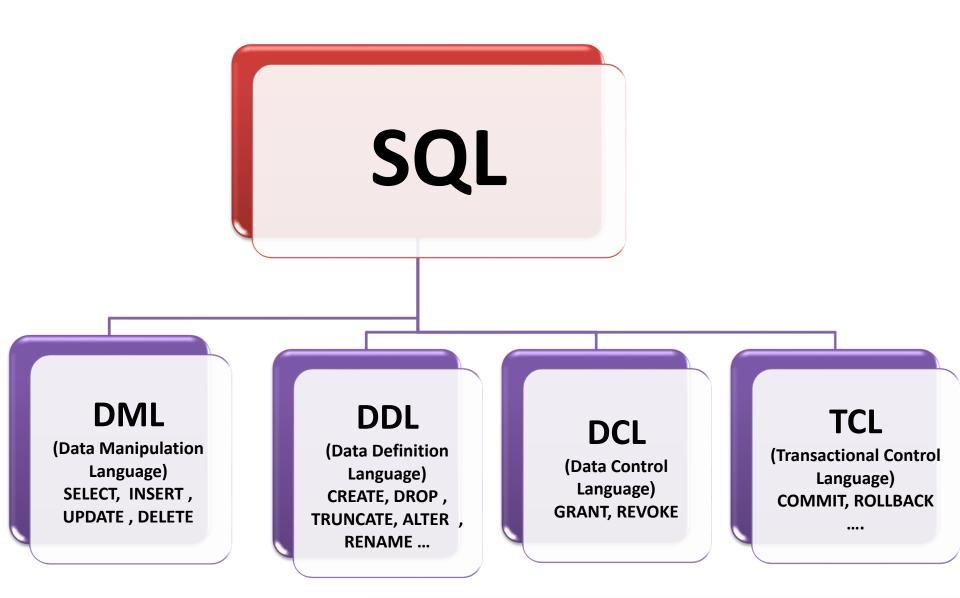
نظم قواعد المعطيات المتقدمة

الجلسة الأولى



Note: DDL & DCL are autocommit (do commit implicitly)

Create Table

Create Table:

create table employee (emp_id number(4,0) Primary Key, first_name varchar(30));

Describe Table:

Desc employee

Alter Table

Change details of table:

- Alter table employee rename column first_name to f_name;
- Alter table employee add last_name varchar(20);
- Alter table employee modify last_name varchar(40);

Rename table:

Alter table employee rename to emp;

Drop Table

Delete Table:

Drop table emp;

TO_CHAR FUNCTION

Syntax:

TO_CHAR (value , format_mask)

- value: A number or date that will be converted to a string.
- format_mask: This is the format that will be used to convert value to string

TO_CHAR FUNCTION

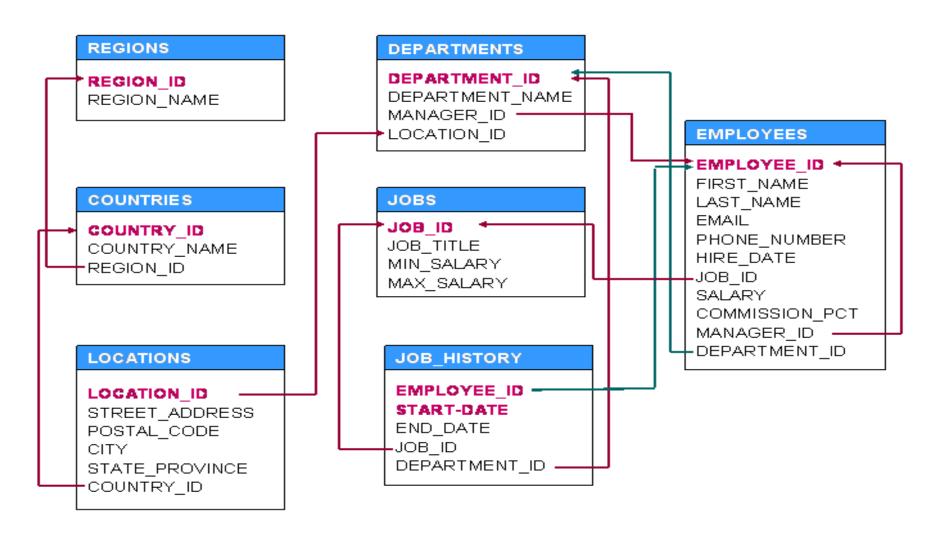
Example		Result
TO_CHAR	(33.444, '99.9')	33.4
TO_CHAR	(33.444, '\$99.9')	\$33.4
TO_CHAR	(sysdate, 'Day')	Monday
TO_CHAR	(sysdate,'DD')	02
TO_CHAR	(sysdate,'YYYY')	2016
TO_CHAR	(sysdate,'YY')	16
TO_CHAR	(sysdate,'MM')	10

TO_CHAR FUNCTION Example

SELECT TO_CHAR (33.444, '99.9') FROM DUAL;

SELECT FIRST_NAME, HIRE_DATE, TO_CHAR (HIRE_DATE,'YYYY') FROM EMPLOYEES;

HR_Schema Tables



Note: Columns in RED color indicate primary key(s).

Insert a row into departments table that department ID is 280, department name is Sports, manager ID is 120 and location ID 1200.

INSERT INTO DEPARTMENTS VALUES (280, 'Sports', 120, 1200);

Change the ID of "Sports" department to 300.

UPDATE DEPARTMENTS

SET DEPARTMENT_ID =300

WHERE DEPARTMENT_NAME ='Sports';

Delete "Sports" department from department table.

DELETE FROM DEPARTMENTS
WHERE DEPARTMENT_NAME ='Sports';

Display details of jobs.

SELECT *
FROM JOBS;

Display details of jobs where the minimum salary is greater than 10000.

```
SELECT *
FROM JOBS
WHERE MIN_SALARY > 10000;
```

Display details of jobs in the descending order of the title.

SELECT *
FROM JOBS
ORDER BY JOB_TITLE DESC;

Display department IDs and Department Names.

SELECT DEPARTMENT_ID, DEPARTMENT_NAME FROM DEPARTMENTS;

Display EMPLOYEE_ID, salary, commission percentage, and salary after add 25% of salary for all employees.

SELECT EMPLOYEE_ID, SALARY, COMMISSION_PCT, SALARY+SALARY*0.25 FROM EMPLOYEES;

<u>Or:</u>

SELECT EMPLOYEE_ID, SALARY, COMMISSION_PCT, SALARY*1.25 FROM EMPLOYEES;

Display the first name and hire date of the employees who earned salary between 2500 and 4000.

SELECT FIRST_NAME, HIRE_DATE
FROM EMPLOYEES
WHERE SALARY BETWEEN 2500 AND 4000;

Display the first name and hire date of the employees who earned salary between 2500 and 4000, in the ascending order of HIRE_DATE.

SELECT FIRST_NAME, HIRE_DATE
FROM EMPLOYEES
WHERE SALARY BETWEEN 2500 AND 4000
ORDER BY HIRE_DATE;

Display the first name and hire date of the employees who earned salary between 2500 and 4000, in the descending order of HIRE_DATE.

SELECT FIRST_NAME, HIRE_DATE
FROM EMPLOYEES
WHERE SALARY BETWEEN 2500 AND 4000
ORDER BY HIRE_DATE DESC;

Display the first name and hire year of the employees

SELECT FIRST_NAME, TO_CHAR (HIRE_DATE,'YYYY')
JOIN_YEAR FROM EMPLOYEES;

Display the first name and hire date of the employees who hire year between 1997 and 1999 ordered by hire date.

SELECT FIRST_NAME, HIRE_DATE FROM EMPLOYEES WHERE TO_CHAR(HIRE_DATE, 'YYYY') BETWEEN 1997 AND 1999
ORDER BY HIRE DATE;