

SQL Commands

The **SQL** commands are mainly categorized into four categories as:

1. **DDL** – Data Definition Language
2. **DML** – Data Manipulation Language
3. **DQL** – Data Query Language
4. **TCL** – Transaction Control Language

1. DDL(Data Definition Language) :

DDL or Data Definition Language actually consists of the SQL commands that can be used to define the database schema. It simply deals with descriptions of the database schema and is used to create and modify the structure of database objects in the database.

Examples of DDL commands:

(a) CREATE – is used to create the database or its objects (like table, index, function, views, store procedure and triggers).

Example: CREATE database employees;

```
CREATE TABLE department (dep_id int(11), dep_name  
varchar(20), dep_location varchar(15));
```

```
mysql> create database employees;  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> create table department (dep_id int(11), dep_name varchar(20), dep_location varchar(15));  
Query OK, 0 rows affected (0.07 sec)
```

```
mysql>
```

(b) DROP – is used to delete objects from the database.

Example: DROP table employees;

```
mysql> drop table employees;
Query OK, 0 rows affected (0.00 sec)

mysql> show tables;
Empty set (0.03 sec)
```

(c) ALTER - is used to alter the structure of the database.

Example: ALTER TABLE employees add column (address varchar(30));

```
mysql> ALTER TABLE employees add column (address varchar(30));
Query OK, 0 rows affected (0.26 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

(d) TRUNCATE—is used to remove all records from a table, including all spaces allocated for the records are removed.

Example: TRUNCATE employees;

```
mysql> TRUNCATE employees;
Query OK, 0 rows affected (0.00 sec)
```

(e) COMMENT —is used to add comments to the data dictionary.

Example: ALTER TABLE employees

COMMENT "This is Employees Database.";

```
mysql> ALTER TABLE employees
-> COMMENT "This is Employees Database."
-> ;
Query OK, 0 rows affected (0.08 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

(f) RENAME –is used to rename an object existing in the database.

Example: `RENAME TABLE employees TO emp;`

```
mysql> RENAME TABLE employees TO emp;
Query OK, 0 rows affected (0.02 sec)
```

2. DML (Data Manipulation Language) :

The SQL commands that deals with the manipulation of data present in the database belong to DML or Data Manipulation Language and this includes most of the SQL statements.

Examples of DML:

(a) INSERT – is used to insert data into a table.

Example: `INSERT INTO employees VALUES (69325, 'JOHN', 'CLERK', 68832, '1992-01-23', 1350.0, 0.0, 1001);`

```
mysql> INSERT INTO employees VALUES (69325, 'JOHN', 'CLERK', 68832, '1992-01-23', 1350.0, 0.0, 1001);
Query OK, 1 row affected (0.05 sec)
```

```
mysql> █
```

(b) UPDATE – is used to update existing data within a table.

Example: `UPDATE employees`

`SET salary = '1380' WHERE emp_id = 69325;`

```
mysql> UPDATE employees
-> SET
-> salary = '1380'
-> WHERE
-> emp_id = 69325
-> ;
Query OK, 1 row affected (0.07 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

(c) DELETE – is used to delete records from a database table.

Example: DELETE FROM employees WHERE emp_id = 69325;

```
mysql> DELETE FROM employees WHERE emp_id = 69325;
Query OK, 1 row affected (0.00 sec)

mysql>
```

3. DQL (Data Query Language) :

DML statements are used for performing queries on the data within schema objects. The purpose of DQL Command is to get some schema relation based on the query passed to it.

Example of DQL:

(a) SELECT – is used to retrieve data from the database.

Example: SELECT * FROM employees;

```
mysql> select * from employees;
```

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
68319	KAYLING	PRESIDENT	60000	1991-11-18	6000.00	0.00	1001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	0.00	3001
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	0.00	1001
65646	JONAS	MANAGER	68319	1991-04-02	2957.00	0.00	2001
67858	SCARLET	ANALYST	65646	1997-04-19	3100.00	0.00	2001
69062	FRANK	ANALYST	65646	1991-12-03	3100.00	0.00	2001
63679	SANDRINE	CLERK	69062	1990-12-18	900.00	0.00	2001
64989	ADELYN	SALESMAN	66928	1991-02-20	1700.00	400.00	3001
65271	WADE	SALESMAN	66928	1991-02-22	1350.00	600.00	3001
66564	MADDEN	SALESMAN	66928	1991-09-28	1350.00	1500.00	3001
68454	TUCKER	SALESMAN	66928	1991-09-08	1600.00	0.00	3001
68736	ADNRES	CLERK	67858	1997-05-23	1200.00	0.00	2001
69000	JULIUS	CLERK	66928	1991-12-03	1050.00	0.00	3001
69324	MARKER	CLERK	67832	1992-01-23	1400.00	0.00	1001

```
14 rows in set (0.09 sec)
```

4. TCL (Transaction Control Language) :

TCL commands deals with the transaction within the database.

Examples of TCL commands:

(a) **COMMIT**– commits a Transaction.

Example: `COMMIT;`

```
c:\wamp64\bin\mysql\mysql5.7.26\bin\mysql.exe
mysql> INSERT INTO employees VALUES (69325, 'JOHN', 'CLERK', 68832, '1992-01-23', 1350.0, 0.0, 1001);
Query OK, 1 row affected (0.00 sec)

mysql> COMMIT;
Query OK, 0 rows affected (0.00 sec)
```

(b) **SAVEPOINT**–sets a save point within a transaction.

Example : `SAVEPOINT <savepoint_name>;`

```
mysql> UPDATE employees SET emp_name = 'MARY' WHERE emp_id = 69325;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SAVEPOINT B;
Query OK, 0 rows affected (0.00 sec)
```

(c) **ROLLBACK**– rollbacks a transaction in case of any error occurs.

Example: `ROLLBACK TO <savepoint_name>;`

```
mysql> ROLLBACK;
Query OK, 0 rows affected (0.03 sec)
```

Some other Basic Commands

1. **SHOW** : It is used to view the contents of databases.

Example : `SHOW databases;`

```
mysql> SHOW databases;
+-----+
| Database |
+-----+
| information_schema |
| emp          |
| employee     |
| mysql        |
| performance_schema |
| sample       |
| sys          |
+-----+
7 rows in set (0.11 sec)
```

`SHOW tables;`

```
mysql> SHOW tables;
+-----+
| Tables_in_emp |
+-----+
| department    |
| employees      |
| salary_grade  |
+-----+
3 rows in set (0.00 sec)
```

2. **USE** : It is used to use the desired database.

Example : `USE emp;`

```
mysql> USE emp;
Database changed
```

3. DESC : It is used to view the description of any table.

Example : DESC employees;

```
mysql> DESC employees;
```

Field	Type	Null	Key	Default	Extra
emp_id	int(11)	NO	PRI	NULL	
emp_name	varchar(15)	YES		NULL	
job_name	varchar(10)	YES		NULL	
manager_id	int(11)	YES		NULL	
hire_date	date	YES		NULL	
salary	decimal(10,2)	YES		NULL	
commission	decimal(7,2)	YES		NULL	
dep_id	int(11)	YES		NULL	

8 rows in set (0.28 sec)

4. SOURCE : It is used to import any database.

Example : SOURCE c:\emp_employees.sql;

```
mysql> source c:\emp_employees.sql;
ERROR:
Unknown command '\e'.
Query OK, 0 rows affected, 1 warning (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

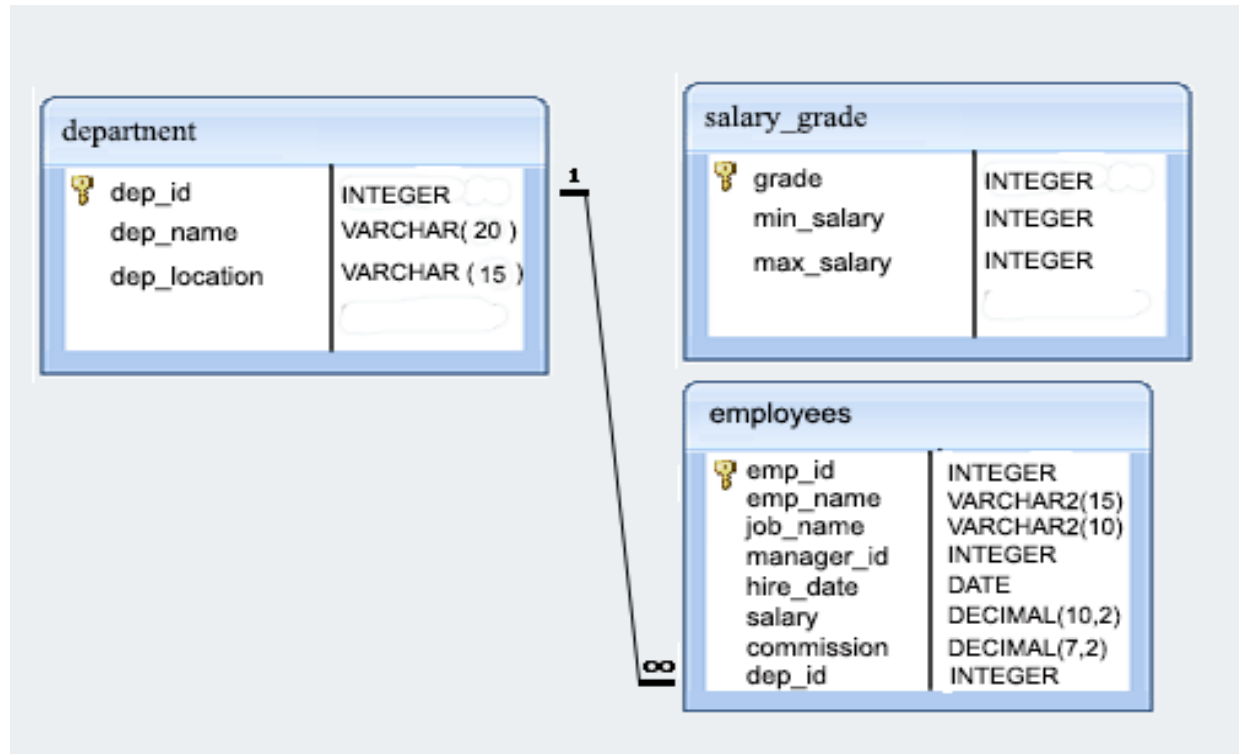
Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 1 row affected, 1 warning (0.00 sec)
```

Employee Database

Structure of Employee Database



Task - 1

Write a query in SQL to display all the information of the employees.

Command: `SELECT * FROM employees;`

```
mysql> USE emp;
Database changed
mysql> SELECT * FROM employees;
```

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
68319	KAYLING	PRESIDENT	60000	1991-11-18	6000.00	0.00	1001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	0.00	3001
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	0.00	1001
65646	JONAS	MANAGER	68319	1991-04-02	2957.00	0.00	2001
67858	SCARLET	ANALYST	65646	1997-04-19	3100.00	0.00	2001
69062	FRANK	ANALYST	65646	1991-12-03	3100.00	0.00	2001
63679	SANDRINE	CLERK	69062	1990-12-18	900.00	0.00	2001
64989	ADELYN	SALESMAN	66928	1991-02-20	1700.00	400.00	3001
65271	WADE	SALESMAN	66928	1991-02-22	1350.00	600.00	3001
66564	MADDEN	SALESMAN	66928	1991-09-28	1350.00	1500.00	3001
68454	TUCKER	SALESMAN	66928	1991-09-08	1600.00	0.00	3001
68736	ADNRES	CLERK	67858	1997-05-23	1200.00	0.00	2001
69000	JULIUS	CLERK	66928	1991-12-03	1050.00	0.00	3001
69324	MARKER	CLERK	67832	1992-01-23	1400.00	0.00	1001

```
14 rows in set (0.18 sec)
```

Task - 2

Write a query in SQL to find the salaries of all employees.

Command: `SELECT salary FROM employees;`

```
mysql> SELECT salary FROM employees;
+-----+
| salary |
+-----+
| 6000.00 |
| 2750.00 |
| 2550.00 |
| 2957.00 |
| 3100.00 |
| 3100.00 |
| 900.00  |
| 1700.00 |
| 1350.00 |
| 1350.00 |
| 1600.00 |
| 1200.00 |
| 1050.00 |
| 1400.00 |
+-----+
14 rows in set (0.02 sec)
```

Task - 3

Write a query in SQL to display the unique designations for the employees.

Command: `SELECT DISTINCT job_name FROM employees;`

```
mysql> SELECT DISTINCT job_name FROM employees;
+-----+
| job_name |
+-----+
| PRESIDENT |
| MANAGER   |
| ANALYST   |
| CLERK     |
| SALESMAN  |
+-----+
5 rows in set (0.07 sec)
```

Task - 4

Write a query in SQL to list the emp_name and salary is increased by 15% and expressed as no.of Dollars.

Command: SELECT emp_name, CONCAT("\$",1.15*salary) FROM employees;

```
mysql> SELECT emp_name, CONCAT("$",1.15*salary) FROM employees;
```

emp_name	CONCAT("\$",1.15*salary)
KAYLING	\$6900.0000
BLAZE	\$3162.5000
CLARE	\$2932.5000
JONAS	\$3400.5500
SCARLET	\$3565.0000
FRANK	\$3565.0000
SANDRINE	\$1035.0000
ADELYN	\$1955.0000
WADE	\$1552.5000
MADDEN	\$1552.5000
TUCKER	\$1840.0000
ADNRES	\$1380.0000
JULIUS	\$1207.5000
MARKER	\$1610.0000

```
14 rows in set (0.03 sec)
```

Task - 5

Write a query in SQL to produce the output of employees name and job name as a format of "Employee & Job".

Command: `SELECT emp_name, job_name AS "Job" FROM employees;`

```
mysql> SELECT emp_name, job_name AS "Job" FROM employees;
```

emp_name	Job
KAYLING	PRESIDENT
BLAZE	MANAGER
CLARE	MANAGER
JONAS	MANAGER
SCARLET	ANALYST
FRANK	ANALYST
SANDRINE	CLERK
ADELYN	SALESMAN
WADE	SALESMAN
MADDEN	SALESMAN
TUCKER	SALESMAN
ADNRES	CLERK
JULIUS	CLERK
MARKER	CLERK

14 rows in set (0.00 sec)

Task - 6

Write a query in SQL to produce the output of employees as follows
Employee JONAS(manager).

Command: `SELECT CONCAT(emp_name,"(",job_name,")") FROM employees;`

```
mysql> SELECT CONCAT(emp_name,"(",job_name,")") FROM employees;
+-----+
| CONCAT(emp_name,"(",job_name,")") |
+-----+
| KAYLING(PRESIDENT)                |
| BLAZE(MANAGER)                    |
| CLARE(MANAGER)                    |
| JONAS(MANAGER)                    |
| SCARLET(ANALYST)                  |
| FRANK(ANALYST)                    |
| SANDRINE(CLERK)                   |
| ADELYN(SALESMAN)                  |
| WADE(SALESMAN)                    |
| MADDEN(SALESMAN)                  |
| TUCKER(SALESMAN)                  |
| ADNRES(CLERK)                     |
| JULIUS(CLERK)                     |
| MARKER(CLERK)                     |
+-----+
14 rows in set (0.00 sec)
```

Task - 7

Write a query in SQL to list the employees with Hire date in the format like February 22, 1991.

Command: `SELECT emp_id, emp_name, salary, DATE_FORMAT(hire_date, "%M %d, %y") FROM employees;`

```
mysql> SELECT emp_id, emp_name, salary, DATE_FORMAT(hire_date, "%M %d, %y") FROM employees;
```

emp_id	emp_name	salary	DATE_FORMAT(hire_date, "%M %d, %y")
68319	KAYLING	6000.00	November 18, 91
66928	BLAZE	2750.00	May 01, 91
67832	CLARE	2550.00	June 09, 91
65646	JONAS	2957.00	April 02, 91
67858	SCARLET	3100.00	April 19, 97
69062	FRANK	3100.00	December 03, 91
63679	SANDRINE	900.00	December 18, 90
64989	ADELYN	1700.00	February 20, 91
65271	WADE	1350.00	February 22, 91
66564	MADDEN	1350.00	September 28, 91
68454	TUCKER	1600.00	September 08, 91
68736	ADNRES	1200.00	May 23, 97
69000	JULIUS	1050.00	December 03, 91
69324	MARKER	1400.00	January 23, 92

14 rows in set (0.02 sec)

Task - 8

Write a query in SQL to count the no. of characters without considering the spaces for each name.

Command: `SELECT LENGTH(TRIM(emp_name)) FROM employees;`

```
mysql> SELECT LENGTH(TRIM(emp_name)) FROM employees;
```

LENGTH(TRIM(emp_name))
7
5
5
5
7
5
8
6
4
6
6
6
6
6

```
14 rows in set (0.01 sec)
```

Task - 9

Write a query in SQL to list the emp_id,salary, and commission of all the employees.

Command: `SELECT emp_id,salary,commission FROM employees;`

```
mysql> SELECT emp_id,salary,commission FROM employees;
```

emp_id	salary	commission
68319	6000.00	0.00
66928	2750.00	0.00
67832	2550.00	0.00
65646	2957.00	0.00
67858	3100.00	0.00
69062	3100.00	0.00
63679	900.00	0.00
64989	1700.00	400.00
65271	1350.00	600.00
66564	1350.00	1500.00
68454	1600.00	0.00
68736	1200.00	0.00
69000	1050.00	0.00
69324	1400.00	0.00

```
14 rows in set (0.00 sec)
```


Task - 10

Write a query in SQL to display the unique department with jobs.

Command: `SELECT DISTINCT dep_id,job_name FROM employees;`

```
mysql> SELECT DISTINCT dep_id,job_name FROM employees;
```

dep_id	job_name
1001	PRESIDENT
3001	MANAGER
1001	MANAGER
2001	MANAGER
2001	ANALYST
2001	CLERK
3001	SALESMAN
3001	CLERK
1001	CLERK

9 rows in set (0.00 sec)

Task - 11

Write a query in SQL to list the employees who does not belong to department 2001.

Command : `SELECT * FROM employees WHERE dep_id NOT IN (2001);`

```
mysql> SELECT * FROM employees WHERE dep_id NOT IN (2001);
```

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
68319	KAYLING	PRESIDENT	60000	1991-11-18	6000.00	0.00	1001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	0.00	3001
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	0.00	1001
64989	ADELYN	SALESMAN	66928	1991-02-20	1700.00	400.00	3001
65271	WADE	SALESMAN	66928	1991-02-22	1350.00	600.00	3001
66564	MADDEN	SALESMAN	66928	1991-09-28	1350.00	1500.00	3001
68454	TUCKER	SALESMAN	66928	1991-09-08	1600.00	0.00	3001
69000	JULIUS	CLERK	66928	1991-12-03	1050.00	0.00	3001
69324	MARKER	CLERK	67832	1992-01-23	1400.00	0.00	1001

```
9 rows in set (0.05 sec)
```

Task - 12

Write a query in SQL to list the employees who joined before 1991.

Command : `SELECT * FROM employees WHERE hire_date < ("1991-01-01");`

```
mysql> SELECT * FROM employees WHERE hire_date < ("1991-01-01");
```

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
63679	SANDRINE	CLERK	69062	1990-12-18	900.00	0.00	2001

```
1 row in set (0.01 sec)
```

Task - 13

Write a query in SQL to display the average salaries of all the employees who works as ANALYST.

Command : `SELECT AVG(salary) FROM employees WHERE job_name="ANALYST";`

```
mysql> SELECT AVG(salary) FROM employees WHERE job_name="ANALYST";
+-----+
| AVG(salary) |
+-----+
| 3100.000000 |
+-----+
1 row in set (0.05 sec)
```

Task - 14

Write a query in SQL to display the details of the employee BLAZE.

Command : `SELECT * FROM employees WHERE emp_name="BLAZE";`

```
mysql> SELECT * FROM employees WHERE emp_name="BLAZE";
+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_id | emp_name | job_name | manager_id | hire_date | salary | commission | dep_id |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 66928 | BLAZE | MANAGER | 68319 | 1991-05-01 | 2750.00 | 0.00 | 3001 |
+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

Task - 15

Write a query in SQL to display all the details of the employees whose commission is more than their salary.

Command : `SELECT * FROM employees WHERE commission>salary;`

```
mysql> SELECT * FROM employees WHERE commission>salary;
```

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
66564	MADDEN	SALESMAN	66928	1991-09-28	1350.00	1500.00	3001

1 row in set (0.00 sec)

Task - 16

Write a query in SQL to list the employees whose salary is more than 3000 after giving 25% increment.

Command : `SELECT * FROM employees WHERE (1.25*salary>3000);`

```
mysql> SELECT * FROM employees WHERE (1.25*salary>3000);
```

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
68319	KAYLING	PRESIDENT	60000	1991-11-18	6000.00	0.00	1001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	0.00	3001
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	0.00	1001
65646	JONAS	MANAGER	68319	1991-04-02	2957.00	0.00	2001
67858	SCARLET	ANALYST	65646	1997-04-19	3100.00	0.00	2001
69062	FRANK	ANALYST	65646	1991-12-03	3100.00	0.00	2001

6 rows in set (0.02 sec)

Task - 17

Write a query in SQL to list the name of the employees, those having six characters to their name.

Command : `SELECT emp_name FROM employees WHERE
length(emp_name)=6;`

```
mysql> SELECT emp_name FROM employees WHERE length(emp_name)=6;
```

```
+-----+  
| emp_name |  
+-----+  
| ADELYN   |  
| MADDEN   |  
| TUCKER   |  
| ADNRES   |  
| JULIUS   |  
| MARKER   |  
+-----+
```

```
6 rows in set (0.01 sec)
```

Task - 18

Write a query in SQL to list the employees who joined in the month January.

Command : SELECT * FROM employees WHERE
(date_format(hire_date,"%m"))=1;

mysql> SELECT * FROM employees WHERE (date_format(hire_date,"%m"))=1;

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
69324	MARKER	CLERK	67832	1992-01-23	1400.00	0.00	1001

1 row in set (0.02 sec)

Task - 19

Write a query in SQL to list the name of employees and their manager separated by the string 'works for'.

Command : SELECT CONCAT (e.emp_name," works for ",m.emp_name) as
"employees" FROM employees e, employees m WHERE
e.manager_id=m.emp_id;

```
mysql> SELECT CONCAT (e.emp_name," works for ",m.emp_name) as "employees" FROM employees e, employees m WHERE e.manager_id=m.emp_id;
```

employees
BLAZE works for KAYLING
CLARE works for KAYLING
JONAS works for KAYLING
SCARLET works for JONAS
FRANK works for JONAS
SANDRINE works for FRANK
ADELYN works for BLAZE
WADE works for BLAZE
MADDEN works for BLAZE
TUCKER works for BLAZE
ADNRES works for SCARLET
JULIUS works for BLAZE
MARKER works for CLARE

13 rows in set (0.16 sec)

Task - 20

Write a query in SQL to list all the employees whose designation is CLERK.

Command : `SELECT * FROM employees WHERE job_name="CLERK";`

```
mysql> SELECT * FROM employees WHERE job_name="CLERK";
```

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
63679	SANDRINE	CLERK	69062	1990-12-18	900.00	0.00	2001
68736	ADNRES	CLERK	67858	1997-05-23	1200.00	0.00	2001
69000	JULIUS	CLERK	66928	1991-12-03	1050.00	0.00	3001
69324	MARKER	CLERK	67832	1992-01-23	1400.00	0.00	1001

```
4 rows in set (0.00 sec)
```

Task – 21

Write a query in SQL to list the employees whose experience is more than 27 years.

Command : `SELECT *`


```

FROM employees
WHERE EXTRACT(YEAR
              FROM age(CURRENT_DATE, hire_date)) > 27;

```

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
64989	ADELYN	SALESMAN	66928	1991-02-20	1700.00	400.00	3001
65271	WADE	SALESMAN	66928	1991-02-22	1350.00	600.00	3001
65679	SANDRINE	CLERK	69062	1990-12-18	900.00		2001

(3 rows)

Task - 22

Write a query in SQL to list the employees whose salaries are less than 3500.

Command : SELECT *
FROM employees
WHERE salary <3500;

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00		3001
67832	CLARE	MANAGER	68319	1991-06-09	2550.00		1001
65646	JONAS	MANAGER	68319	1991-04-02	2957.00		2001
67858	SCARLET	ANALYST	65646	1997-04-19	3100.00		2001
69062	FRANK	ANALYST	65646	1991-12-03	3100.00		2001
63679	SANDRINE	CLERK	69062	1990-12-18	900.00		2001
64989	ADELYN	SALESMAN	66928	1991-02-20	1700.00	400.00	3001
65271	WADE	SALESMAN	66928	1991-02-22	1350.00	600.00	3001
66564	MADDEN	SALESMAN	66928	1991-09-28	1350.00	1500.00	3001
68454	TUCKER	SALESMAN	66928	1991-09-08	1600.00	0.00	3001
68736	ADNRES	CLERK	67858	1997-05-23	1200.00		2001
69000	JULIUS	CLERK	66928	1991-12-03	1050.00		3001
69324	MARKER	CLERK	67832	1992-01-23	1400.00		1001

(13 rows)

Task - 23

Write a query in SQL to list the name, job_name, and salary of any employee whose designation is ANALYST.

Command : SELECT emp_name,

```

        job_name,
        salary
FROM employees
WHERE job_name = 'ANALYST';

```

```

emp_name | job_name | salary
-----+-----+-----
SCARLET  | ANALYST  | 3100.00
FRANK    | ANALYST  | 3100.00
(2 rows)

```

Task - 24

Write a query in SQL to list the employees who have joined in the year 1991.

Command :

```
SELECT *
FROM employees
WHERE to_char(hire_date, 'YYYY') = '1991';
```

```

emp_id | emp_name | job_name | manager_id | hire_date | salary | commission | dep_id
-----+-----+-----+-----+-----+-----+-----+-----
68319 | KAYLING  | PRESIDENT |          | 1991-11-18 | 6000.00 |          | 1001
66928 | BLAZE    | MANAGER   | 68319    | 1991-05-01 | 2750.00 |          | 3001
67832 | CLARE    | MANAGER   | 68319    | 1991-06-09 | 2550.00 |          | 1001
65646 | JONAS    | MANAGER   | 68319    | 1991-04-02 | 2957.00 |          | 2001
69062 | FRANK    | ANALYST   | 65646    | 1991-12-03 | 3100.00 |          | 2001
64989 | ADELYN   | SALESMAN  | 66928    | 1991-02-20 | 1700.00 | 400.00    | 3001
65271 | WADE     | SALESMAN  | 66928    | 1991-02-22 | 1350.00 | 600.00    | 3001
66564 | MADDEN   | SALESMAN  | 66928    | 1991-09-28 | 1350.00 | 1500.00   | 3001
68454 | TUCKER   | SALESMAN  | 66928    | 1991-09-08 | 1600.00 | 0.00      | 3001
69000 | JULIUS   | CLERK     | 66928    | 1991-12-03 | 1050.00 |          | 3001
(10 rows)

```

Task - 25

Write a query in SQL to list the name, id, hire_date, and salary of all the employees joined before 1 apr 91.

Command : SELECT e.emp_id,
 e.emp_name,
 e.hire_date,
 e.salary
 FROM employees e
 WHERE hire_date < '1991-04-01';

emp_id	emp_name	hire_date	salary
63679	SANDRINE	1990-12-18	900.00
64989	ADELYN	1991-02-20	1700.00
65271	WADE	1991-02-22	1350.00

(3 rows)

Task - 26

Write a query in SQL to list the employee name, and job_name who are not working under a manager.

Command : SELECT e.emp_name,
 e.job_name
 FROM employees e
 WHERE manager_id IS NULL;

emp_name	job_name
KAYLING	PRESIDENT

Task - 27

Write a query in SQL to list all the employees joined on 1st may 91.

Command : SELECT *
 FROM employees

```
WHERE hire_date = '1991-05-01';
```

```
emp_id | emp_name | job_name | manager_id | hire_date | salary | commission | dep_id
-----+-----+-----+-----+-----+-----+-----+-----
  66928 | BLAZE    | MANAGER |      68319 | 1991-05-01 | 2750.00 |           |    3001
(1 row)
```

Task - 28

Write a query in SQL to list the id, name, salary, and experiences of all the employees working for the manger 68319.

Command :

```
SELECT emp_id,
       emp_name,
       salary,
       age(CURRENT_DATE, hire_date) "Experience"
FROM employees
WHERE manager_id=68319;
```

```
emp_id | emp_name | salary | Experience
-----+-----+-----+-----
  66928 | BLAZE    | 2750.00 | 26 years 8 mons 29 days
  67832 | CLARE    | 2550.00 | 26 years 7 mons 21 days
  65646 | JONAS    | 2957.00 | 26 years 9 mons 28 days
(3 rows)
```

Task - 29

Write a query in SQL to list the id, name, salary, and experience of all the employees who earn more than 100 as daily salary.

Command :

```
SELECT emp_id,
```

```

        emp_name,
        salary,
        age(CURRENT_DATE, hire_date) "Experience"
FROM employees
WHERE (salary/30)>100;

```

```

emp_id | emp_name | salary |      Experience
-----+-----+-----+-----
  68319 | KAYLING  | 6000.00 | 26 years 2 mons 12 days
  67858 | SCARLET  | 3100.00 | 20 years 9 mons 11 days
  69062 | FRANK    | 3100.00 | 26 years 1 mon 27 days
(3 rows)

```

Task - 30

Write a query in SQL to list the employees who are retiring after 31-Dec-99 after completion of 8 years of service period.

Command :

```
SELECT emp_name
FROM employees
WHERE hire_date + interval '96 months' > '1999-12-31';
```

```

emp_name
-----
ADNRES
MARKER
SCARLET
(3 rows)

```