SQL TASK-1

Step 1: Install MySQL

To install MySQL, you can follow the instructions on the MySQL website: https://dev.mysql.com/doc/refman/8.0/en/installing.html

Step 2: Create a database in MySQL

Once after installing MySQL, we can create a database by running the following command:

CREATE DATABASE (database_name);

Database schema:

Department:

id (INT): The primary key of the table.

deptcode (INT): The department code.

deptname (VARCHAR(30)): The department name.

location (VARCHAR(33)): The department location.

Employee:

id (INT): The primary key of the table.

empcode (INT): The employee code.

empfname (VARCHAR(15)): The employee's first name.

empiname (VARCHAR(15)): The employee's last name.

job (CHAR(4)): The employee's job title.

date (DATE): The employee's hire date.

salary (decimal(6,2)): The employee's salary.

manager (INT): The employee's manager's ID.

hireddate (DATE): The employee's start date.

commission (INT): The employee's commission.

deptcode (INT): The department code.

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INSTERING DATA:
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Enter password: *****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 22

Server version: 5.1.45-community MySQL Community Server (GPL)

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE my database;

Query OK, 1 row affected (0.00 sec)

mysql> USE my database;

Database changed

mysql> CREATE TABLE department (deptcode INT NOT NULL,deptname VARCHAR(30) NOT NULL,location VARCHAR(33) NOT NULL,PRIMARY KEY (deptcode));

Query OK, 0 rows affected (0.02 sec)

mysql> INSERT INTO department (deptcode, deptname, location) VALUES (10, 'FINANCE', 'EDINBURGH');

Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO department (deptcode, deptname, location) VALUES (20, 'SOFTWARE', 'PADDINGTON');

Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO department (deptcode, deptname, location) VALUES (30, 'SALES', 'MAIDSTONE');

Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO department (deptcode, deptname, location) VALUES (40, 'MARKETING', 'DARLINGTON');

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Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO department (deptcode, deptname, location) VALUES (50, 'ADMIN',
'BIRMINGHAM');
Query OK, 1 row affected (0.00 sec)
mysql> CREATE TABLE employee (
 -> empcode INT NOT NULL,
  -> empfname VARCHAR(15) NOT NULL,
  -> empiname VARCHAR(15) NOT NULL,
  -> job CHAR(4) NOT NULL,
  -> manager INT,
 -> hiredate DATE,
 -> salary DECIMAL(6,2),
 -> commission INT,
  -> deptcode INT NOT NULL,
 -> FOREIGN KEY (deptcode) REFERENCES department (deptcode)
 ->);
Query OK, 0 rows affected (0.02 sec)
mysql> INSERT INTO employee (empcode, empfname, empiname, job, manager, hiredate,
salary, commission, deptcode) VALUES (9369, 'TONY', 'STARK', LEFT('SOFTWARE ENGINEER',
4), 7902, '1980-12-17', 2800, 0, 20);
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO employee (empcode, empfname, empiname, job, manager, hiredate,
salary, commission, deptcode) VALUES (9499, 'TIM', 'ADOLF', LEFT('SALESMAN', 4), 7698,
'1981-02-20', 1600, 300, 30);
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Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO employee (empcode, empfname, empiname, job, manager, hiredate, salary, commission, deptcode) VALUES (9566, 'KIM', 'JARVIS', LEFT('MANAGER', 4), 7839, '1981-04-02', 3570, 0, 20);

Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO employee (empcode, empfname, empiname, job, manager, hiredate, salary, commission, deptcode) VALUES (9591, 'WENDY', 'SHAWN', LEFT('SALESMAN', 4), 7698, '1981-02-22', 500, 0, 30);

Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO employee (empcode, empfname, empiname, job, manager, hiredate, salary, commission, deptcode) VALUES (9654, 'SAM', 'MILES', LEFT('SALESMAN', 4), 7698, '1981-09-28', 1250, 1400, 30);

Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO employee (empcode, empfname, empiname, job, manager, hiredate, salary, commission, deptcode) VALUES (9698, 'BELLA', 'SWAN', LEFT('MANAGER', 4), 7839, '1981-05-01', 3420, 0, 30);

Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO employee (empcode, empfname, empiname, job, manager, hiredate, salary, commission, deptcode) VALUES (9777, 'MADII', 'HIMBURY', LEFT('ANALYST', 4), 7839, '1981-05-01', 2000, 200, 20)

->;

Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO employee (empcode, empfname, empiname, job, manager, hiredate, salary, commission, deptcode) VALUES (9782, 'KEVIN', 'HILL', LEFT('MANAGER', 4), 7839, '1981-06-09', 2940, 0, 10);

Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO employee (empcode, empfname, empiname, job, manager, hiredate, salary, commission, deptcode) VALUES (9778, 'CONNIE', 'SMITH', LEFT('ANALYST', 4), 7566, '1982-12-09', 3000, 0, 20);

Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO employee (empcode, empfname, empiname, job, manager, hiredate, salary, commission, deptcode) VALUES (9839, 'ALFRED', 'KINSLEY', LEFT('PRESIDENT', 4), 7566, '1981-11-17', 5000, 0, 10);

Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO employee (empcode, empfname, empiname, job, manager, hiredate, salary, commission, deptcode) VALUES (9844, 'PAUL', 'TIMOTHY', LEFT('SALESMAN', 4), 7698, '1981-08-09', 1500, 0, 30);

Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO employee (empcode, empfname, empiname, job, manager, hiredate, salary, commission, deptcode) VALUES (9860, 'ATHENA', 'WILSON', LEFT('ANALYST', 4), 7839, '1982-06-21', 7000, 100, 50);

Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO employee (empcode, empfname, empiname, job, manager, hiredate, salary, commission, deptcode) VALUES (9861, 'JENNIFER', 'HUETTE', LEFT('ANALYST', 4), 7839, '1976-07-01', 5000, 100, 50);

Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO employee (empcode, empfname, empiname, job, manager, hiredate, salary, commission, deptcode) VALUES (9876, 'JOHN', 'ASGHAR', LEFT('SOFTWARE ENGINEER', 4), 7788, '1983-01-12', 3100, 0, 20);

Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO employee (empcode, empfname, empiname, job, manager, hiredate, salary, commission, deptcode) VALUES (9900, 'ROSE', 'SUMMERS', LEFT('TECHNICAL LEAD', 4), 7698, '1981-12-03', 2950, 0, 20);

Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO employee (empcode, empfname, empiname, job, manager, hiredate, salary, commission, deptcode) VALUES (9902, 'ANDREW', 'FAULIKNER', LEFT('ANALYST', 4), 7566, '1981-12-03', 3000, 0, 10);

Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO employee (empcode, empfname, empiname, job, manager, hiredate, salary, commission, deptcode) VALUES (9934, 'KAREN', 'MATTHEWS', LEFT('SOFTWARE ENGINEER', 4), 7782, '1982-01-23', 3300, 0, 20);

Query OK, 1 row affected (0.02 sec)

						-		
ipcode +	empfname 	empiname 	job 	manager +	hiredate	salary 	commission 	deptcode
9369	TONY	STARK	SOFT	7902	1980-12-17	2800.00	0	20
9499	TIM	ADOLF	SALE	7698	1981-02-20	1600.00	300	30
9566	KIM	JARVIS	MANA	7839	1981-04-02	3570.00	Θ	20
9591	WENDY	SHAWN	SALE	7698	1981-02-22	500.00	Θ	30
9654	SAM	MILES	SALE	7698	1981-09-28	1250.00	1400	30
9698	BELLA	SWAN	MANA	7839	1981-05-01	3420.00	0	30
9777	MADII	HIMBURY	ANAL	7839	1981-05-01	2000.00	200	20
9782	KEVIN	HILL	MANA	7839	1981-06-09	2940.00	0	10
9778	CONNIE	SMITH	ANAL	7566	1982-12-09	3000.00	0	20
9839	ALFRED	KINSLEY	PRES	7566	1981-11-17	5000.00	Θ	10
9844	PAUL	TIMOTHY	SALE	7698	1981-08-09	1500.00	0	30
9860	ATHENA	WILSON	ANAL	7839	1982-06-21	7000.00	100	50
9861	JENNIFER	HUETTE	ANAL	7839	1976-07-01	5000.00	100	50
9876	JOHN	ASGHAR	SOFT	7788	1983-01-12	3100.00	Θ	20
9900	ROSE	SUMMERS	TECH	7698	1981-12-03	2950.00	Θ	20
9902	ANDREW	FAULIKNER	ANAL	7566	1981-12-03	3000.00	Θ	10
9934	KAREN	MATTHEWS	SOFT	7782	1982-01-23	3300.00	0	20
	set (0.00 s CT * FROM d		+					
ptcode	deptname	location	+					
10	FINANCE	EDINBURGH						
20	SOFTWARE	PADDINGTO	N					
30	SALES	MAIDSTONE						
40	MARKETING	DARLINGTO	N					