

21BCE7371

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DBMS LAB ASSIGNMENT - 4

INITIAL DATABASES:

TABLE: DEPT

DEPTCODE	DeptName	LOCATION
10	FINANCE	EDINBURGH
20	SOFTWARE	PADDINGTON
30	SALES	MAIDSTONE
40	MARKETING	DARLINGTON
50	ADMIN	BIRMINGHAM

5 rows in set (0.00 sec)

TABLE: EMPLOYEE

EmpCode	EmpFName	EmpLName	Job	Manager	HireDate	Salary	Commission	DEPTCODE
9369	TONY	STARK	SOFTWARE ENGINEER	7902	1980-12-17	2800	0	20
9499	TIM	ADOLF	SALESMAN	7698	1981-02-20	1600	300	30
9566	KIM	JARVIS	MANAGER	7839	1981-04-02	3570	0	20
9654	SAM	MILES	SALESMAN	7698	1981-09-28	1250	1400	30
9782	KEVIN	HILL	MANAGER	7839	1981-06-09	2940	0	10
9788	CONNIE	SMITH	ANALYST	7566	1982-12-09	3000	0	20
9839	ALFRED	KINSLEY	PRESIDENT	NULL	1981-11-17	5000	0	10
9844	PAUL	TIMOTHY	SALESMAN	7698	1981-09-08	1500	0	30
9876	JOHN	ASGHAR	SOFTWARE ENGINEER	7788	1983-01-12	3100	0	20
9900	ROSE	SUMMERS	TECHNICAL LEAD	7698	1981-12-03	2950	0	20
9902	ANDREW	FAULKNER	ANAYLYST	NULL	1981-12-03	3000	0	10
9934	KAREN	MATTHEWS	SOFTWARE ENGINEER	7782	1982-01-23	3300	0	20
9591	WENDY	SHAWN	SALESMAN	7698	1981-02-22	500	0	30
9698	BELLA	SWAN	MANAGER	7839	1981-05-01	3420	0	30
9777	MADII	HIMBURY	ANALYST	7839	1981-05-01	2000	200	NULL
9860	ATHENA	WILSON	ANALYST	NULL	1992-06-21	7000	100	50
9861	JENNIFER	HUETTE	ANALYST	7839	1996-07-01	5000	100	50

17 rows in set (0.00 sec)

QUESTION 1:

```
CREATE TABLE COPYOFDEPT LIKE DEPT;      -- QUESTION 1:  
INSERT INTO COPYOFDEPT SELECT * FROM DEPT;
```

```
mysql> SELECT * FROM COPYOFDEPT;  
+-----+-----+-----+  
| DEPTCODE | DeptName | LOCATION |  
+-----+-----+-----+  
|      10 | FINANCE  | EDINBURGH |  
|      20 | SOFTWARE | PADDINGTON |  
|      30 | SALES    | MAIDSTONE |  
|      40 | MARKETING | DARLINGTON |  
|      50 | ADMIN    | BIRMINGHAM |  
+-----+-----+-----+  
5 rows in set (0.00 sec)
```

QUESTION 2:

```
DELETE FROM COPYOFDEPT;      -- QUESTION 2:
```

```
mysql> DELETE FROM COPYOFDEPT;      -- QUESTION 2:  
Query OK, 5 rows affected (0.00 sec)  
  
mysql> SELECT * FROM COPYOFDEPT;  
Empty set (0.00 sec)
```

QUESTION 3:

```
DROP TABLE COPYOFDEPT;      -- QUESTION 3:
```

```
mysql> DROP TABLE COPYOFDEPT;      -- QUESTION 3:  
Query OK, 0 rows affected (0.01 sec)  
  
mysql> SELECT * FROM COPYOFDEPT;  
ERROR 1146 (42S02): Table 'lab.copyofdept' doesn't exist
```

QUESTION 4:

```
ALTER TABLE DEPT ADD PRIMARY KEY(DEPTCODE);      -- QUESTION 4:  
ALTER TABLE EMPLOYEE ADD PRIMARY KEY (EmpCode);  
ALTER TABLE EMPLOYEE ADD FOREIGN KEY (DEPTCODE) REFERENCES DEPT(DEPTCODE);
```

```
mysql> ALTER TABLE DEPT ADD PRIMARY KEY(DEPTCODE);           -- QUESTION 4:
Query OK, 0 rows affected (0.03 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> ALTER TABLE EMPLOYEE ADD PRIMARY KEY (EmpCode);
Query OK, 0 rows affected (0.03 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> ALTER TABLE EMPLOYEE ADD FOREIGN KEY (DEPTCODE) REFERENCES DEPT(DEPTCODE);
Query OK, 17 rows affected (0.03 sec)
Records: 17  Duplicates: 0  Warnings: 0
```

QUESTION 5:

```
ALTER TABLE EMPLOYEE DROP CONSTRAINT EMPLOYEE_ibfk_1;           -- QUESTION 5:
ALTER TABLE EMPLOYEE ADD FOREIGN KEY (DEPTCODE) REFERENCES DEPT(DEPTCODE);
```

```
mysql> ALTER TABLE EMPLOYEE DROP CONSTRAINT EMPLOYEE_ibfk_1;           -- QUESTION 5:
Query OK, 0 rows affected (0.01 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> ALTER TABLE EMPLOYEE ADD FOREIGN KEY (DEPTCODE) REFERENCES DEPT(DEPTCODE);
Query OK, 17 rows affected (0.02 sec)
Records: 17  Duplicates: 0  Warnings: 0
```

QUESTION 6:

```
SELECT EmpFName, EmpLName FROM EMPLOYEE WHERE Salary>2500;  -- QUESTION 6:
```

EmpFName	EmpLName
TONY	STARK
KIM	JARVIS
BELLA	SWAN
KEVIN	HILL
CONNIE	SMITH
ALFRED	KINSLEY
ATHENA	WILSON
JENNIFER	HUETTE
JOHN	ASGHAR
ROSE	SUMMERS
ANDREW	FAULKNER
KAREN	MATTHEWS

12 rows in set (0.00 sec)

QUESTION 7:

```
SELECT EmpFName, EmpLName FROM EMPLOYEE WHERE Salary>3000 AND Salary<7000; --  
QUESTION 7:
```

EmpFName	EmpLName
KIM	JARVIS
BELLA	SWAN
ALFRED	KINSLEY
JENNIFER	HUETTE
JOHN	ASGHAR
KAREN	MATTHEWS

6 rows in set (0.00 sec)

QUESTION 8:

```
SELECT EmpFName, EmpLName FROM EMPLOYEE WHERE Manager IS NULL; -- QUESTION  
8:
```

EmpFName	EmpLName
ALFRED	KINSLEY
ATHENA	WILSON
ANDREW	FAULKNER

3 rows in set (0.00 sec)

QUESTION 9:

```
SELECT EmpFName, EmpLName FROM EMPLOYEE WHERE HireDate BETWEEN '1985-01-01' AND  
'1995-01-01'; -- QUESTION 9:
```

```
+-----+-----+
| EmpFName | EmpLName |
+-----+-----+
| ATHENA   | WILSON   |
+-----+-----+
1 row in set (0.00 sec)
```

QUESTION 10:

```
SELECT EmpFName, EmpLName FROM EMPLOYEE WHERE HireDate>'1985-01-01'; --
QUESTION 10:
```

```
+-----+-----+
| EmpFName | EmpLName |
+-----+-----+
| ATHENA   | WILSON   |
| JENNIFER | HUETTE   |
+-----+-----+
2 rows in set (0.00 sec)
```

