

1. A consultancy firm keeps its details in a computer database. The information below contains details obtained from two tables of the database. Study the tables and answer the questions that follow.

Employee table

EMPLOYEE ID	EMPLOYEE NAME	DEPARTMENT	JOB TITLE	SALARY
7369	Mark Koech	Research	Clerk	48,000
7499	Philip Meme	Sales	Salesman	16,000
7521	Mohamed Ali	Sales	Salesman	12,500
7566	Kennedy Simiyu	Research	Manager	39,750
7698	David Kamau	Operating	Manager	38,500
7782	Titus Ole Simiani	Operating	Manager	34,500
7788	John Onyango	Accounting	Analyst	30,000
7821	Patel Shah	Research Operations	Analyst	25000

Department table

DEPARTMENT CODE	DEPARTMENT NAME	LOCATION
10	Accounting	Nairobi
20	Research	Nakuru
30	Sales and marketing	Mombasa
40	Operations	Kisumu

Required

- Create a database that can be used to store the above data and save it as ALMAC in the disk provided. (10mks)
- Using appropriate key and foreign keys, create a relationship between the two tables. Enter referential integrity between the tables. (4mks)
- Validate the primary key entry to exactly four and two character for the employee ID and dept code fields respectively. (4mks)
- Create a form for each table and use it to enter records shown in the tables above. Save the form as employee form and depart form respectively. (8mks)
- It is required that the dates on when the employees were hired be included in the database. Koech was hired on 10/6/98, Meme in 15/8/96, Muhammed in 16/3/96, Onyango on 9/3/03, the rest were hired on 13/3/04. Insert a new field name it date of hire in the employees table and enter the records. (8mks)

- (f) (i) Create a query that displays employees who were employed after year 2000. Save the query as LATEST EMPLOYEES. (8mks)  
(ii) Sort latest employees query in ascending order using the employee's name. (2mks)
- (g) Create a report that displays the employee name, job title, department, name and salary, grouped according to location. Save the report as EMPLOYEES REPORT. (4mks)
- (h) Print
  - (i) Employees and department tables designs
  - (ii) Employee and department forms
  - (iii) Latest employees query
  - (iv) Employees report. (2mks)

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