

A school keeps its students details in a computer database. The information below contains details obtained from two tables of database. Study the tables and answer the following questions.

DETAILS

NAMES	KCPE MARKS	ADMNO	Year Of KCPE	DORMITORY
Tom Jose	250	2030	2011	Ruvuma
Okoth Rao	356	2031	2012	Zaire
Ken Otieno	412	2032	2012	Tana
Dan Muoso	205	2033	2011	Ruvuma
Adan Hassan	400	2034	2010	Zaire
Ahmed Kubasu	185	2035	2011	Tana
Mutai Jemo	289	2036	2012	Ruvuma
Mutua Sarafi	300	2037	2012	Zaire
Muesh Linda	426	2038	2011	Tana
Viena Oscar	405	2039	2010	Zaire
Violet Kadija	336	2040	2012	Tana

PERFORMANCE				
ADMNO	ENGLISH	MATHS	KISWAHILI	COMPUTER
2030	59	48	56	83
2031	56	36	48	76
2032	29	25	59	80
2033	88	79	65	67
2034	70	29	62	91
2035	39	46	24	68
2036	82	78	18	84
2037	54	75	19	46
2038	69	54	46	87
2039	53	96	75	24
2040	74	20	49	50

- a) Create a new database called STUDENTS. (2marks)
- b) Design two tables: DETAILS and PERFORMANCE with the following **properties** in their fields:
 Validate the ADMNO entry to exactly four characters, three characters for KCPE MARKS and DORMITORY names each to start with capital letter.
 (4marks)
- c) Using appropriate **primary and foreign keys** create a relationship between the two tables and enforce referential integrity.
 (4 marks)
- d) Create and use forms to enter data into tables.
 (12 marks)
- e) Create a query that would extract students whose name starts with letter "A" and save it as "Names"
 (4marks)
- f) Create a query that would display *ADMNO, NAME, ENGLISH, MATHS, KISWAHILI and COMPUTER* and calculate the totals of the four subjects, sort the totals in descending order. Save it as "MARKS"
 (4marks)

- g) Create a query that would display **only** those students who sat their KCPE in **2012** and reside in **Tana dormitory**, save the query as **“Tanas”** (3marks)
- h) Using the performance table, compute the *average* for **ENGLISH** field, *standard deviation* for **MATHS** field and *Variance* for **KISWAHILI** field to be displayed on the same table. (3marks)
- (i) Create a form to display all fields of details table with the following: (7marks)
- Layout:-tabular
 - Style:-opulent
 - Title:-**Dform**
 - Add two *form controls* to “print” and “close” the form.
- j) Create a report with the title **“Excellent”** using the query **“MARKS”** above. (2marks)
- k) Print:
- i) **Dform** in portrait while the query **“MARKS”** in landscape (2marks)
 - ii) Performance table (2marks)
 - iii) Report excellent (1mark)