











## DATABASE DESIGN

The effective implementation of any GIS research lies on the proper planning and design of the database is known as the heart of GIS. The process of designing a database is known as data modeling, here real world entities and their relationships are analyzed and modeled to conform to the syntax of the software of choice (kufoniyi,1998) The design of database involves the following phases; **Conceptual design, Logical design, Physical design** 

## DATA SOURCES

The process carried out involved the collection of primary data, that is, location data of facilities through field observation using the Garmin handheld Global Position System (Garmin CP76). While the secondary data source include Google earth imagery updated in the the month of October, 2012 and documentations from International crisis group



TLEMENTS		
OBJECTID *	SHAPE *	S_NAME
1	Point	BUKURU
2	Point	DADINKOWA
3	Point	RANTYA
4	Point	ANGLO JOS
5	Point	HWOLSHE
6	Point	TUDUN WADA
7	Point	JENTA ADAMU
8	Point	GANGARE
9	Point	RIKKOS
10	Point	DUTSE UKU
11	Point	NASARAWA GWOM
12	Point	DILIMI
13	Point	ANGUWAN
14	Point	GONGO RUSSIA
15	Point	ALIKAZAURE
16	Point	APATA
17	Point	ANGWAN ROGO
18	Point	FEDERAL LOW COST
19	Point	STATE LOW COST













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LOCATION	BEST ROUTE	ALTERNATIVE ROUTE	DIFFERENCE
Military post to Fatima catholic church	4.7km	5.4km	39.0m
Military post to Fatima central mosque	6.4km	6.5km	







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## CONCLUSION

Modern security perations involve combined forces and an integrated approach for evaluating battle area for mobilizing logistics, moving various forces and setting communication network for effective operations in real time scenario are very necessary prerequisite for successful operations. In this paper, a map showing the location and spread of violence in Jos metropolis has been produced. Location of important securith posts were also shown on a map. The analyses performed can be used as a support for decision making processes for security agencies



