

List of Figures

Figure 1.1 Revolution vs Evolution	3
Figure 1.2 Simple SOA where services are called or communicate with each other.	5
Figure 1.3 SOA from a Java Developers' Perspective.....	6
Figure 1.4 Distributed Database.	8
Figure 1.5 Generic D-DBMS architecture.....	10
 Figure 2.1 Education Cloud Architecture	38
 Figure 3.1 Sample .regsrvr file	53
Figure 3.2 Sample services developed in .NET.....	55
Figure 3.3 SwisSQL Data Migration Tool.....	61
Figure 3.4 Informatica Tool.....	64
Figure 3.5 Microsoft SQL Server Integration Services	65
Figure 3.6 Redgate SQL Monitor Architecture.....	67
Figure 3.7 Two Tier Architecture based DBA Tool	69
Figure 3.8 Three Tier Architecture based DBA Tool.....	70
 Figure 4.1 Sample of format of excel sheet	73
Figure 4.2 General Instructions for accepting and sending data using Excel sheet	74
Figure 4.3 Instructions for adding student details.....	74
Figure 4.4 Instructions for importing student details from excel sheet	75
Figure 4.5 HDMT Tool – 1	78
Figure 4.6 HDMT Tool – 2	78
Figure 4.7 Data Migration in DDB environment	82
Figure 4.8 DBA settings for allowing HDMT to access DB Server	87
Figure 4.9 HDMT Tool, DB Servers and DBA as users	88
Figure 4.10 HDMT Tool Services	89
Figure 4.11 Three Tier Architecture based HDMT Tool	90
Figure 4.12 Cloud services based tool architecture.....	92
Figure 4.13 HDMT server connection and DB name display	95
Figure 4.14 HDMT unsuccessful server connection.....	96
Figure 4.15 HDMT DB connection and table name display	97
Figure 4.16 HDMT DB connection and column name display	98
Figure 4.17 HDMT unequal number of column names error display	99
Figure 4.18 HDMT duplicate column selection error message.....	99
Figure 4.19 HDMT column names selection	100
Figure 4.20 HDMT data display.....	101
Figure 4.21 HDMT html data deletion facility.....	102
Figure 4.22 HDMT html data deletion facility (data not deleted on selection of 'Cancel') ...	102
Figure 4.23 HDMT html data deletion facility (data deleted from html table)	103
Figure 4.24 HDMT html data deletion facility (data not deleted from DB table).....	103

Figure 4.25 HDMT data type compatibility & convertibility checking	104
Figure 4.26 HDMT Add Table to queue for migration	105
Figure 4.27 HDMT data type compatibility checking for another table	105
Figure 4.28 HDMT Add another table to queue for migration	106
Figure 4.29 HDMT – Destroy the migration queue.....	106
Figure 4.30 HDMT – Data Migration Status Report if no data to be migrated	107
Figure 4.31 HDMT – View the migration queue	107
Figure 4.32 HDMT data type compatibility conversion code	109
Figure 4.33 HDMT data migration report	110
Figure 4.34 HDMT data migration report in case of constraints	110
Figure 5.1 HDMT tool and its functional decomposition.....	114
Figure 5.2 HDMT tool and its service decomposition	115
Figure 5.3 Ajax – jQuery page call using POST method	116
Figure 5.4 Echo json data to display html table on client side (web browser).....	116

List of Tables

Table 2.1 Comparative data of various cloud services	39
Table 3.1 Comparison of Aqua Data Studio with Redgate SQL Monitor.....	67