

LIST OF FIGURES

Figure I-1 Big data usage trends on companies (Gartner, 2015).....	1
Figure I-2 Advantages of using data visualization in the companies (Stodder, 2013)	2
Figure I-3 Time spent for transactional data processing (Telin Hong Kong Ltd., 2016).....	3
Figure II-1 Dashboard example.....	10
Figure II-2 Tableau architecture.....	11
Figure II-3 Production dashboard architecture model PT. Inkoasku (Kristanto et al., 2012).....	12
Figure III-1 Research's conceptual model.....	14
Figure III-2 Research systematics	15
Figure IV-1 Current data processing architecture	17
Figure IV-2 current dashboard mockup: Operators' success and failure	18
Figure IV-3 current dashboard mockup: Partners' success and failure.....	18
Figure IV-4 Lookup tables	19
Figure IV-5 Prototype I's architecture.....	20
Figure IV-6 Prototype I's flow chart	20
Figure IV-7 Prototype I's dashboard.....	21
Figure IV-8 Prototype II's architecture	22
Figure IV-9 Aggregated tables structure.....	23
Figure IV-10 Prototype II's daily jobs flow chart	24
Figure IV-11 Lookup tables' structure	25
Figure V-1 Daily jobs' result	26
Figure V-2 Program code: define current date.....	27
Figure V-3 Paragraph result: define current date	27
Figure V-4 Program code: load the TDR files into dataframe	28
Figure V-5 Paragraph result: load the TDR files into dataframe	28
Figure V-6 Dataframe structure.....	28
Figure V-7 Program code: load MySQL tables to dataframes.....	29
Figure V-8 Paragraph result: load MySQL tables to dataframes	29
Figure V-9 Program code: zero-valued dataframe	30

Figure V-10 Paragraph result: zero-valued dataframe.....	30
Figure V-11 Empty dataframes	31
Figure V-12 Program code: count and insert total transaction.....	32
Figure V-13 Paragraph result: count and insert total transaction.....	32
Figure V-14 Query result	32
Figure V-15 Program code: insert operator's success transactions	33
Figure V-16 Paragraph result: insert operators' success transactions	33
Figure V-17 Query results.....	33
Figure V-18 Program code: count operators' failure transactionss	34
Figure V-19 Paragraph result: insert operators' failure transactions	34
Figure V-20 Query result	34
Figure V-21 Program code: insert partners' success transactions (I).....	35
Figure V-22 Paragraph result: insert partners' success transactions (I).....	35
Figure V-23 Query result	35
Figure V-24 Program code: insert partners' success transactions (II)	36
Figure V-25 Paragraph result: insert partners' success transactions (II).....	36
Figure V-26 Query result	36
Figure V-27 Program code: insert partners' failure transactions (I).....	37
Figure V-28 Paragraph result: insert partners' failure transactions (I)	37
Figure V-29 Query result	37
Figure V-30 Program code: Paragraph result: insert partners' failure transactions (II).....	38
Figure V-31 Paragraph result: insert partners' failure transactions (II)	38
Figure V-32 Query result	38
Figure V-33 Testing result in graphic.....	39
Figure V-34 Operators transaction dashboard.....	40
Figure V-35 Partners transaction dashboard	41