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gesis
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Debunking Myths in CAQDAS Use and Coding in Qualitative Data Analysis. Experiences with and Reflections on Grounded Theory Methodology

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Abstract: I deliberate firstly the primacy of grounded theory as a methodology and secondly the primacy of grounded theory coding as a method in deciding on CAQDAS use in my research. In the first section of this paper, I weigh the extent to which my research draws and departs from the principles and practices of grounded theory methodology (GTM). In examining the impact of cultures and religions on women’s human rights in Malaysia I have used for example hypothesis-guided criteria for sampling. This is strictly speaking not in the original sense a grounded theory approach. In the paper, I make transparent the extent to which GTM has informed my work in enhancing the qualitative research and in highlighting the uses and limits of GTM, I pose the question to what extent have I demystified its paradigmatic status in CAQDAS and its homogenising effects. In the second section, I discuss the dominance of coding in qualitative data analysis and I argue that the pitfall of reifying coding as analyses can be avoided through a researcher’s reflexivity and agency (self-determination) combined with a pragmatic view and the use of codes as a means and not as an end, essentially, grounded theory coding. I discuss whether CAQDAS use as a tool facilitates the rigour of GTM and the transparency of grounded theory coding as method as manifested in one’s audit trail, and whether this in turn constitute research that is more accountable, innovative and effective.
1. Introduction

The wisdom of using grounded theory methodology (GTM) in my research today seems an obvious option but it was not always so. In this paper, I share with you my initiation rites into GTM through deliberating on CAQDAS use and coding that I went through as a PhD candidate five years ago.

I began by investigating the added advantages of using CAQDAS or computer assisted qualitative data analysis software in comparison to a manual-cum-word processing (electronic cut-and-paste) method in creatively managing and making sense of my data. As such, my initial questions focused on whether or not to use CAQDAS and if so, which one, for example NUD*IST, Nvivo and ATLAS.ti have basic code-and-retrieve functions culminating in complex theory building capacities.

Further investigation led me to relevant literature on analysing or interpreting qualitative data and the CAQDAS Networking Project (at <http://caqdas.soc.surrey.ac.uk>). I was also informed by peer and user feedback primarily (but not exclusively) through e-mail correspondence with virtual members of the QUAL-SOFTWARE JISCmail list (<QUAL-SOFTWARE@JISCMAIL.AC.UK>, for subscribers only) and the invaluable Faculty of the Social Sciences course on Analysing Qualitative Data at Lancaster University, UK.

I then realised that my initial questions, i.e. to use or not use CAQDAS and which software, was short-sighted. The fundamental question I ought to have deliberated on instead is how to analyse qualitative data within the methodological framework of my research design in which I investigated the impact of cultures and religions on the rhetoric and practice of women’s rights in Malaysia, a Southeast Asian nation that is multi-cultural and multi-religious. This facilitated an internal coherence between methodology and method of data collection and data analysis. In other words, the option of CAQDAS and/or a manual-cum-word processing approach was essentially a tool to assist me in analysing qualitative data and did (and should) not constitute the analysis itself.

The moment of enlightenment for me was not receiving absolute answers to the initial questions of whether or not to use CAQDAS and if so, which software package. My fear of engaging with my textual documents, in particular the 27 interview transcripts (complemented with extant texts such as field notes, state policies and speeches of the Prime Minister of Malaysia, press news and online reports, women’s rights conventions, newsletters of non-governmental organisations and web sites) was made visible. My inexperience in analysing qualitative data having been schooled in literary criticism became deflected and therefore masked my preoccupation bordering on obsession with CAQDAS use. I was in danger of legitimating my analysis by claiming allegiance to groundbreaking technology in the form of CAQDAS. As a latent technophobe, I was ironically seduced by the allure of novelty in the use of CAQDAS. I fancied that it correlated with the originality of my research ques-
tion and multi-disciplinary approach of my research design. Difference was thus valorised for its own sake.

Situating “where one is coming from” (WOODWARD 2000, p.43) constitutes making visible or coming clean with my disposition as a novice qualitative researcher and attendant idiosyncrasies that punctuate one’s research design, execution and one’s analyses. As a corollary to such vulnerability, I left behind an “audit trail” (MAYKUT & MOREHOUSE 1994, p.135) – which signposted my conceptualisation phases and practical contingencies culminating in the final product, my PhD thesis. In doing so, the thesis demystifies the research process by rendering it transparent and the researcher, open to critique or “being found out” by the experts or even emulation by the inexperienced (DEY 1993, p.221). Making an informed decision about the method(s) of analysis is paramount and entails revisiting one’s methodological assumptions reflexively in an iterative or cyclical mode (see BONG 2004 on the politics of interpretation).

The objective of this paper is to consider a qualitative researcher’s fidelity to a grounded theory approach and the ubiquity of grounded theory coding in the sections methodology (2) and methods (3), respectively. Section 3 also offers an evaluation of the “methodological costs and benefits” (advantages and disadvantages) (KELLE 1997a) of CAQDAS which I had deliberated at length prior to investing in ATLAS.ti and concludes with a step-by-step data analysis process applied to 27 interview transcripts.

2. Methodology: Primacy of GTM

The primacy of a grounded theory approach gleaned from (on and off line) literature on analysing and interpreting qualitative data warrants an assessment of the extent of its relevance and application to my research. GTM is listed by John CRESWELL (1998) as one of five research traditions among biography, phenomenology, ethnography and case study and distinguished in terms of reporting approaches, philosophical assumptions, data collection activities including the logic of sampling, data analysis strategies and representation, rhetorical structures and terms about verification. GTM’s research interest is classified as the “discovery of regularities” and further defined as “identification (and categorization) of elements, and exploration of their connections” among Renata TESCH’s categorisation of 26 types of qualitative research (1990, p.72).

The constant comparative method integral to GTM – and firstly outlined by GLASER (1965) – is presented as a (manual) step-by-step qualitative data analysis: inductive category coding based on “units of meaning” of textual data, refinement of categories, exploration of relationship and patterns across categories leading up to an integration of data or sense-making (MAYKUT &
GTM is seemingly positioned (particularly as a sales pitch) as “paradigmatic in CAQDAS” (LONKILA 1995); it is alleged as heralding a “new orthodoxy” or “homogenisation” of methodology (COFFEY, HOLBROOK & ATKINSON 1996); and as a counter claim, this “mythological status” is debunked (LEE & FIELDING 1996). This will be more fully discussed in the methods section on CAQDAS use.

From the literature review above on GTM, I discovered that whilst social scientists may question the centrality of GTM to qualitative researching/CAQDAS, they affirm the merits of GTM, that is, to ground theory in data. The rigour of data collection (sampling and triangulation) and analysis (constant comparative method) in a grounded theory approach constitutes good practice. This in turn informs the criteria of sound qualitative research: “validity of data”, “reliability of method” and “generalisability of analyses” (MASON 1996, p.145). The “validity of data” is premised on a negotiation of the ethical and political dimensions within the interviewer-interviewee relationship involving informed consent of interviewees, member check and peer debriefing (MASON 1996, pp.145-146). Protecting, managing and interpreting data with accountability and sensitivity are also incumbent on the researcher as a custodian of privileged information. The “reliability of method” is gauged by the internal coherence of one’s research design, execution and findings or “design principles, data elicitation, data analysis and knowledge interests” (BAUER & GASKELL 2000, pp.4-5). And the “generalisability of analyses” is assessed by the degree of transparency in one’s research methods effected by leaving an explicit audit trail (MAYKUT & MOREHOUSE 1994, p.135), “folklore of fieldwork” (MARSHALL & ROSSMAN 1995, p.111), “folklore techniques” (in reference to the cut-and-paste method of data analysis as the origin of coding-and-retrieval to the more sophisticated theory-building capacity of CAQDAS) (KELLE & LAURIE 1995, p.24) or a corollary “electronic path,” a visual (graphic) representation of one’s research process (FIELDING & LEE 1995).

From its inception in the seminal text “The Discovery of Grounded Theory” (GLASER & STRAUSS 1974) to its methodological refinement (STRAUSS & CORBIN 1990) and constructivist turn (CHARMAZ 2000, 2006; further debate: GLASER 2002, 2004; BRYANT 2003), GTM’s appeal is essentially the generation of theory from data: it foregrounds data (textual, visual or sound) as the source of theory (BAUER & GASKELL 2000). Theory defined as the relationship among categories, is inductively generated (or it starts) from “units of meaning or analysis”, “theoretical categories” and “codes” or “nodes” in CAQDAS terminology (TESCH 1990; LONKILA 1995, p.49; KELLE 1997b, paragraph 3.6). Its exploratory research design or inductive reasoning is thus contrasted with a “hypothetico-deductive” (H-D) explanatory approach or “deductive reasoning” that codes data for the purpose of hypothesis testing and not hypothesis generation or theory building. The differentiated modes of cod-
“referential” or “interpretive” in GTM as opposed to “factual” or representational in H-D approach will be elaborated on in the next section (see also MASON 1996, p.142; KELLE & LAURIE 1995, p.25; SEIDEL & KELLE 1995, p.53; KELLE 1997b, paragraphs 3.6-3.9, 4.1).

The consolidation of GTM as an established and trustworthy mode of qualitative inquiry however lends itself to hasty allegiances or false claims of fidelity to its methodology and method. There are invariable points of commonality and departure with/from GTM in relation to my research.

My research considered the extent to which cultures and religions impact on women’s rights discourse and activism in Malaysia from a feminist and post-colonial perspective. The “design principle” or “strategic principle” of the research (BAUER & GASKELL 2000, pp.4-5) was a comparative study between activists-cum-theologians-cum-intellectuals who operate within a rights framework (based in secular women’s rights non-governmental organisations or NGOs) and those who operate within religious-based ones who are engaged with (principally) Quranic and Biblical hermeneutics and rights.

A point of departure from GTM was the hypothesis that drove my research design. I did not begin with a blank slate. Having indwelled in the women’s rights movement in Malaysia, as an activist for the past decade and standing then as an insider/outsider (often at risk of going native), I contended that cultures and religions do impact the effective translation of women’s rights in the context of Malaysia because the articulation and practice of rights is culturally and religiously contingent. As such, “women’s rights”, “culture” and “religion” are not mutually exclusive categories. In so doing, I have presupposed an integral relationship among these categories at the outset of my research, prior to “data elicitation” (BAUER & GASKELL 2000, pp.4-5) or data collection and analysis. This, in other words, served as my “hypothesis”. Having a “hypothesis” as such, seemingly runs counter to the premise of grounding theory in data, or seemingly resonates with an objectivist GTM rather than the intended constructivist variant (CHARMAZ 2000, 2006).

On the one hand, one could equivocate by quibbling on the definition of “hypothesis”: “the term hypothesis may denote an empirically testable statement about the exact relation of two defined variables or the term may stand for a tentative and imprecise conjecture about possible relationships between two domains of interest” (KELLE 1997b, paragraph 3.6).

I could lay claim to the definition above that is not incompatible with a grounded theory approach. But my conjecture is problematically more than imprecise but less certain than an “exact relation” as I had yet to fully integrate data analysis or the voices of interviewees with my presuppositions, at the point of my research then. The dialectical tension between hypothesis/theory and data cannot be overstated as I did lay claim to a participatory potential of method (in-depth interviewing and textual analysis) (SILVERMAN 1998) and an emancipative intent of methodology (feminist and collaborative) (LATHER
With the exception of a “theoretical vacuum” or an improbable blank (apolitical) slate, the “impetus to theorise” is neither first (deductive) nor last (inductive) but iterative or dialectical (MASON 1996, p.142). Or more succinctly, “an open mind is not an empty head” (DEY 1993, p.229).

On the other hand, as I made visible my presuppositions, I also came to terms with the extent to which I am implicitly, perhaps even surreptitiously testing theory or hypothesis as it conflicts with an exploratory research paradigm that I have espoused. The categories or “sensitising concepts” (BLUMER) “women’s rights”, “cultures” and “religions” were positioned less as empirically testable variables or mutually exclusive categories as they served as “heuristic devices” or “analytic tools” to facilitate data analysis and interpretation and to engender a thick description. A fine grained hermeneutic analysis thus emerged: the polyphony of the impact of cultures and religions on activism grounded in professional/vocational and personal narratives (MASON 1996, p.113; COFFEY, HOLBROOK & ATKINSON 1996, paragraph 7.7; LONKILA 1995, p.49).

As such my sampling strategy served the combined ends of hypothesis testing and through grounded theorising. The main method of empirical data collection was in-depth, audio-recorded interviews. With reference to the research question or “intellectual puzzle” (MASON 1996, p.47) which theorised the epistemic and practical implications of negotiating rights within a cultural and religious framework, sampling was purposefully homogeneous and heterogeneous. In the former instance, the shared criterion among 27 interviewees was their privileged locality at the interface of rights, cultures and religions. They are gatekeepers of local knowledge and key practitioners in the field of women’s rights in Malaysia because they negotiate almost on a daily basis what it means to translate women’s rights in their various cultural and religious contexts within the public/private realms that they inhabit.

Such “elite interviewing”, which is defined as a specialised form of interviewing that focuses on interviewees who are “influential, prominent and well-informed” marked the homogeneity of sampling (MARSHALL & ROSSMAN 1995, p.83). This was counterbalanced by an internal diversity afforded by the heterogeneity of sampling or proliferation of differences based on identity markers of interviewees such as area of activism/interest, ethnicity, religiosity/spirituality, organisational affiliation, sexual orientation and geographical location of current activism.

Homogeneous and heterogeneous samplings that I have employed resonate to some degree with GTM’s concept of theoretical sampling where the “process of data collection is controlled by the emerging theory, whether substantive or formal ... [and the] criteria are those of theoretical purpose and relevance” (GLASER & STRAUSS 1974, pp.45-48). The pilot interview and on-going assessment of the descriptive and interpretive density of interviews already conducted prompted a start off “initial sampling” of 10 to a more directed
“theoretical sampling” of 27 that provided a richer base for the development of categories towards theory building or thematic links of categories (CHARMAZ 2006, p.100).

Such *ad hoc* and preliminary analysis of this modest sampling however departs from the rigour of theoretical saturation dictated by a grounded theory approach where sampling is exhausted or saturated only when “no additional data are being found whereby the [researcher] can develop properties of the category” (GLASER & STRAUSS 1974, p.61). The yardstick of knowing when to cease sampling or interviewing in this instance, is less an instinctive act (nor tempered by interviewing fatigue) than it is an exhaustive and exhausting constant comparative method of data collection in tandem with data analysis *ad infinitum*.

In addition, the interview format comprising three broad areas of inquiry served as a hypothesis-guided framework. It provided an invaluable thematic structure for data analysis and further theorising on the impact of cultures and religions on women’s rights professionally or vocationally (where activism is voluntary and not paid as in the former) in the public realm and personally on the domestic front. It was tested in a pilot interview and refined across 26 semi-structured interviews where interviewees were asked:

1) to outline their activism from the beginning to present day involvement;
2) to consider cultural and religious factors impacting their activism; and
3) to assess the link (if any) between their faith and their activism.

Sampling, transcribing1, analysis and interpretation constitute theorising as each phase of the research process is informed by the ethics of inclusion/exclusion of narrators and their narratives (TESCH 1990, p.114; OCHS 1979; MASON 1996, p.108; WEAVER & ATKINSON 1994, p.20). In my research, such a theory building enterprise culminated in a Malaysian feminist standpoint epistemology on politicising spirituality and spiritualising politics. Politicising spirituality centred on faith and praxis in theologising from the grassroots: in bringing rights into the church (for Christians), mosque (Muslims), temples (Hindus) and environment (Buddhists and the indigenous) as a way of life. Spiritualising politics called for a spiritual grounding of the basic tenets of good governance of a modernising state in terms of accountability, transparency and equitable distribution of the nation’s wealth.

In a similar vein to having a “hypothesis” at the start of my research project, I avoided a blank slate or “empty head” (DEY 1993, p.229) approach for sampling and interviewing in the following ways. I began the highly anticipated phase of data analysis with a preliminary list of codes which emerged from a pilot analysis of the shortest interview transcript by experimenting on AT-

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1 For an informed decision on the choice of software from the plethora of genres that exists, see in particular FIELDING (1995a, 1995b); HENRY (1999), WEITZMAN and MILES (1995). Note also Ann LEWINS and Christina SILVER’s latest version of their “CAQDAS Comparison” file (<http://caqdas.soc.surrey.ac.uk>).
LAS.ti’s (version 4.2) free download version. The final code list consisted of 31 code families and 406 codes.

3. Method: Primacy of Coding

In the above section I have explored the means by which my research draws from the good practice of a grounded theory approach to satisfy the criteria of quality in qualitative research through “validity of data”, “reliability of method”, and “generalisability of analyses” (MASON 1996, p.145).

I have elaborated on two points of departure from a grounded theory approach: firstly, that my research and theoretical maturation were inductively grounded in data but were guided by a “hypothesis” which is redefined as a provisional link among categories; rights, cultures and religions. Secondly, I have employed theoretical sampling, an integral method of data collection of GTM to the extent that I had conducted elite interviewing with 27 interviewees. This sampling was both heterogeneous (alluding to permutation of identity markers) and homogeneous (as knower and doer of rights within a multi-cultural and multi-religious context). But the rigour of dialectically (as opposed to sequentially) feeding data collection into data analysis through a back-and-forth constant comparative method in order to saturate analysis (as well as sampling) was approximated but not fully achieved.

The production of texts for analysis through sampling, interviewing and transcribing concretises the validity of data criterion. It affords the site for the negotiation of contested meaning through measures such as eliciting informed consent and member checks to engender what is concealed or revealed and by whom. As such it makes visible the ethics and politics of inclusion/exclusion that is a corollary of the power differentials between interviewer-interviewee. Reconstituting these sites as original texts rather than the more perfunctory label of raw data divested of meaning, is thus more appropriate. It infers that these primary texts are valued in itself and as a means to the end of theory building (SEIDEL & KELLE 1995, p.58; MARSHALL & ROSSMAN 1995, p.113). The politics of interpretation as such extends (but is not the starting point of) the negotiation of meaning inherent in the production of these texts for analysis.

In order to proliferate meaning, the interviews were transcribed ad verbatim with repetitious and incomplete utterances much to the chagrin and embarrassment of interviewees. I personally transcribed all interviews in the interest of confidentiality with the added advantage of familiarising myself with its contents. As the average length of an interview was an hour and a half, the transcripts averaged between 20-30 pages of single-spaced texts. This was a considerable wealth of information to organise and make sense of.
For ATLAS.ti use the interviews were re-formatted and saved (originally as Word documents) as plain texts that is ASCII text with line breaks (WEITZ-MAN & MILES 1995). In terms of data storage, multiple back up copies had been made. Where data is valued as information and “potential information” (for future research projects with informed consent from interviewees), its discretionary protection, use and dissemination in ensuring the “non-identifiability” of interviewees, in both “automatic data processing (adp) form” and manual records (as above including field notes) constitute responsible stewardship of data (AKEROYD 1991, pp.89-91).

The primary texts (interview transcripts) were thus produced where reliability of method (of sampling, interviewing and analysis) and the generalisability of analyses follow through from the validity of data. These three criteria of good practices of qualitative researching – validity of data, reliability of method and generalisability of analyses – were accomplished mainly through GTM use. I began with a hypothesis on the provisional link among categories such as “women’s rights”, “cultures” and “religions”. Theoretical sampling through intensive, elite interviewing and the combination of focused coding with axial coding and theoretical coding (see below, also CHARMAZ 2006, pp.57-63) further refined the properties of these categories and made more explicit the link among them, essentially, that the rhetoric and practice of women’s rights is culturally and religiously contingent. This analysis becomes generalisable in the sense that local practices potentially impact global practices of women’s rights.

As such, the question of how to analyse one’s textual data raised at the introduction of this paper, has been reframed methodologically in assessing the applicability of GTM to my research or conversely, my fidelity to its good practice. Similarly, following through the reliability of method points to coding as a method of data analysis that is corollary to GTM in particular and in general, to qualitative data analysis. Although coding “is not the only, the best, or even the preferred method for the analysis of qualitative data” (LEE & FIELDING 1996, paragraph 2.4), notwithstanding its ubiquity in (on and off line) literature and usage, its merit in organising and interpreting data is noteworthy. Coding is paradigmatic of the “constant comparative method” of GTM and qualitative data analysis. Its four-step analytic process consists of: 1. comparing units of meaning across categories for inductive category coding; 2. refining categories; 3. “delimiting the theory” by exploring relationships and patterns across categories; and 4. integrating data to write theory (GLASER & STRAUSS 1974, pp.105-115; MAYKUT & MOREHOUSE 1994, pp.134-145). The practical use of grounded theory coding further involves a four-step process comprising: initial coding (word-by-word, line-by-line, incident-by-incident coding), focused coding (that is more directed, selective and concep-
tual), axial coding (that relates categories or subcategories), culminating in theoretical coding (that specifies possible relationships between categories) (CHARMAZ 2006, pp.48-66). The “folklore of fieldwork” (MARSHALL & ROSSMAN 1995, p.111) comprising the legacy of researchers’ audit trails posits the centrality of coding. This composite testament to coding encompasses manual or physical handling of data (“Cut-Up-and-Put-in-Folders approach” and the “File-Card system”) and CAQDAS (beginning with word processing programmes or electronic cut-and-paste, data base managers to sophisticated “third-generation software” or text analysis software based on basic code-and-retrieve techniques which culminate in complex theory building) (TESCH 1990, pp.127-134; KELLE 1997b, paragraph 2.6).

To “can (i.e., get rid of)” one’s data as Harry WOLCOTT (1990, p.35) ceremoniously describes data management and interpretation is synonymous with “data reduction” (MARSHALL & ROSSMAN 1995, p.113), “data distillation” or “data condensation” (TESCH 1990, p.139). Data analysis is at once conceptual and organisational, interpretive as well as mechanical. Coding for expedient retrieval (of categories) and theory building (relationship among categories) involves the pragmatics of breaking down or dissecting one’s data into manageable and meaningful analytical units. Coding as such “is a theorising process” (RICHARDS & RICHARDS 1994, p.148) where the ethical and practical exigencies of inclusion/exclusion are factored in. Grounded theory coding as used in my research became an “abductive method” – both inductive and deductive (in my use of a “hypothesis”). GTM coding aids researches to delineate properties of categories, distinguish between categories, clarify the relationship between categories and to saturate the properties of categories (CHARMAZ 2006, p.104).

The conflation of coding with analysis however (WEAVER & ATKINSON 1994, p.20), heralds “analytic madness” (SEIDEL 1991, p.109) or “analytic pathologies” (FIELDING & LEE 1998, p.119): viewing coding as an end in itself and not a means to the end of theory building. This is a pitfall applicable and detrimental to both manual and CAQDAS methods although it is more marked in the latter as computer software has the capacity to proliferate coding (FISHER 1999, p.119). The proliferation of codes in itself is not problematic, but it is the proliferation of codes without or independent of a conceptual framework, that is. And this is compounded by a less reflexive researcher who is more liable to “hijacking” (sabotaging) his/her analysis (BARRY 1998, paragraph 2.1). Being enamoured of coding is not a crime, but disengaging it from ones methodological and epistemological presuppositions runs the following risks which are variations on the theme of over-emphasising coding: poorly grounded coding scheme, prolonging the coding process until the scheme is too unwieldy, coding that takes over the analysis rather than serve it (FIELDING & LEE 1998, p.119). By the same token that it is the researcher who drives the
analysis, it is the researcher who is culpable, not the tool (in reference to both manual and CAQDAS approaches to coding).

As an extension of conflating coding with analysis (in addition to the caveat of coding for its own sake), other plausible dangers are the “reification of researcher and data” as well as the “distancing of researcher from data” (WEAVER & ATKINSON 1994, pp.20-21; SEIDEL 1991, pp.112-114). In relation to reification of researcher and data, the coding process, an essentially analytical task, is deemed problematic when we presuppose that: a) meaning is “out there” (inherent in codes and families of codes), waiting to be discovered by the researcher and b) that multiple occurrences more viably signifies meaning rather than single occurrences of categories or codes. To avoid this pitfall, I coded with reflexivity or methodological conscientiousness within a “constructivist grounded theory” approach (CHARMAZ 2000, pp.523-525, CHARMAZ 2006, pp.130-131). In doing so, I recognised that the following are solutions to the problem: a) the interpretive act is partial and incomplete, b) weighed single or rare or seemingly isolated occurrences (in being receptive to “noises in data”) and c) considered negative case analysis according to its analytic significance (WEAVER & ATKINSON 1994, p.21).

In the latter, the “distancing of researcher from data” (SEIDEL 1991, pp.112-114) is another likelihood resulting from the reification of coding where data reduction that is endemic in analysis, becomes reductive. In other words, coding or segmenting one’s data can unwittingly lead to ones “losing the phenomena” when coding or decontextualised units of meaning are unintelligible from within (transcript) and without (alienated from one’s conceptual framework) (SEIDEL & KELLE 1995, p.59).

The commonsensical solutions are to highlight sufficient text when coding enhanced by an intimate knowledge of one’s data and to code towards theory building in the context of full transcripts and one’s overall research design (SEIDEL & KELLE 1995, pp.60-61). ATLAS.ti automatically attaches appropriate identifiers (MASON 1996, p.123) to indexing or coded categories for easy referencing and cross-referencing on-screen and as outputs for audit trails. These include all details within a “hermeneutic unit” or “data structure”: names of primary documents (which I have assigned according to interviewees’ pseudonyms), date of document(s) worked on, page, paragraph and line numbers of quotations highlighted and appended codes, memos (analytic notes), families (containers for type primary documents, codes and memos), results of the “query tool” towards theory building and networks (meaningful semantic relationship among coded categories presented graphically as a connection of nodes) (MUHR 1997, p.8).

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1 A query tool is used for the retrieval of coded text or quotations and comprises the following: operator toolbar, code-family pane, codes pane, term-stack pane, result list and feedback pane (MUHR 1997, pp.79-80).
To recapitulate, two main analytic misconceptions have been debunked: firstly, the primacy of GTM as heralding a new orthodoxy or the homogenisation of methodology; and secondly, the primacy of GTM coding as imbibed with “coding madness” or “analytic pathologies” premised on the reification of coding as analysis per se. By logic of extension, the allegations that CAQDAS compounds these by mythologising GTM and supporting the injunction to code is tenuous and unconvincing as it divests the researcher of reflexive agency (self-determination) in charting the direction of his/her analysis (LEE & FIELDING 1996, paragraph 3.1).

Neither is it helpful to stigmatise CAQDAS use by paradoxically positing that it “destigmatises” qualitative analysis by conferring on the latter the “authority of science and the prestige of technology” (WEAVER & ATKINSON 1994, p.16) and thereby serves as a scientific gloss to authenticate qualitative analysis (COFFEY, HOLBROOK & ATKINSON 1996, paragraph 7.6). It is similarly unpersuasive to assert that CAQDAS from the perspective of technological determinism is invested with threats of “dehumanisation, mechanisation, quantification and sterilisation” that are grossly inimical to the virtues of qualitative researching (PFaffenberger quoted in Weaver & Atkinson 1994, p.9). Within the parameters of an overly rehearsed dualism, that of quantitative/qualitative methodologies and methods, one is damned if one does (use CAQDAS) and damned if one does not!

The awareness that codes as “heuristic devices” are part of data analysis but does not constitute it fully (COFFEY, HOLBROOK & ATKINSON 1996, paragraph 7.7; SEIDEL & KELLE 1995, pp.52-53) and the consideration of making “the best use of available technology” (MASON 1996, pp.127-128) serve as sound reference points in evaluating the merits and demerits of CAQDAS use. Essentially mechanical tasks of data analysis are expedited through its code-and-retrieve function that in turn enhances the conceptual tasks of theory building. Data analysis is thus rendered more rigorous, thorough, creative and fun. The added advantage of CAQDAS as compared to a cut-and-paste method (either manual or electronic) is the permutation of coding categories and links to engender a fine-grained hermeneutic analysis (COFFEY, HOLBROOK & ATKINSON 1996). As such, CAQDAS is neither “a panacea for analytic woes nor a devil-tool of positivism and scientism” (LEE & FIELDING 1996, 4.5). A cost-benefit appraisal of investing in CAQDAS use necessitates a prior familiarity with qualitative data analysis and subsequently entails fitting packages to analytical frameworks and not vice versa (FIELDING 1995b; see for instance GEE [1999] on discourse analysis).

Consequently, “slicing” (segmenting), “splitting” and “splicing” (subcategorising and categorising) one’s data (MASON 1996, p.111; DEY 1993, p.231, 276) are necessary analytic procedures that foreground coding. Cognisant of the pitfalls of reifying coding and proliferating codes (for its own sake) resulting from an abeyance of reflexivity, TESCH’s two-pronged mechanics of in-
terpretational qualitative analysis centred on decontextualisation and recontextualisation are useful guides that reinstate re-categorisation when “slicing,” “splitting” and “splicing” one’s data are evinced (1990, pp.115-127). Text segments as such are doubly contextualised: firstly, within their primary source i.e. transcripts (by having it always at hand) and subsequently, via their linkages with other categories or codes towards theory building.

The distinctiveness and complexity of each narrative thus lends itself to a cross sectional (reminiscent of grounded theory’s constant comparative method with a difference, as described above) and non-cross sectional or holistic analysis of data (MASON 1996, pp.111-131). This triangulation of method in turn entails using ATLAS.ti in tandem with a non-computerised method of data analysis particularly in the final stages of theory building to adequately flesh out the desired “granularity of codes” as finely (not coarsely) grained (FIELDING & LEE 1998, pp.122, 128) (see audit trail below).

The generalisability of analyses coheres with and follows through generalisations implied by one’s research question and supported by one’s sampling strategy as elaborated in the previous sections on methodology and method (MASON 1996). The following constitutes not only my analytic procedure informed by the above deliberations but an audit trail that I hope contributes to the collective (sociological) memory of folklore techniques of and from the field:

Audit trail

Preparing data for analysis
- Generating data through in-depth interviews (extant texts were not coded);
- transcribing audio-recorded interviews that provided an opportunity to relive the dynamics of the interview, to listen to the “noises” in the data that impacts building theory from data;
- member checking or giving interviewees the opportunity to refine their transcripts for accuracy or clarity and to delete sections (where necessary) or alternatively, to conduct member checking with interviewees on quotations used from their interview transcripts for expediency purposes and requesting that interviewees provide me with pseudonyms in researching on sensitive topics, in the interest of confidentiality;
- familiarising myself with the interview transcripts through close readings and re-listening to its audio-recording for further accuracy, clarity and understanding;
- formatting each transcript for ATLAS.ti compatibility by saving Word documents as plain text with line breaks (this includes realigning the right margins with hard returns to halve the length of lines for coding purposes); and
- importing formatted transcripts to ATLAS.ti for analysis.
Data analysis
- Reviewing qualitative data analysis literature to consider merits and limits of CAQDAS use;
- experimenting with ATLAS.ti by downloading its free demo version and coding the shortest interview transcript for an initial code list (guided by hypothesis); investing in ATLAS.ti as I found it more user-friendly than other software and learning its basic functions with online technical support from <http://caqdas.soc.surrey.ac.uk>;
- marking free quotations (creating un-coded text segments) to create manageable units of analysis or text segments in each transcript;
- attaching codes from the initial code list to each quotation and building up the code list;
- refining code list by tidying up overlapping codes and checking the proliferation of codes by an iterative cross-referencing of transcripts;
- creating code families when final transcript was coded;
- manually finding connections between codes towards theory-building; and
- mapping this web of connections for presentation of audit trail.

4. Conclusion

In the first Section, I have elucidated the means by which my research drew from the sound principles and practice of grounded theory to satisfy the criteria of quality qualitative researching through “validity of data,” “reliability of method,” and “generalisability of analyses” (MASON 1996, p.145). There are however two points of departure: firstly, that my research and theoretical maturation were inductively grounded in data but were guided by a hypothesis which is redefined as a provisional but constitutive link among key categories such as rights, cultures and religions. Secondly heterogeneous and homogeneous samplings that I have used approximated but did not achieve the rigour of theoretical sampling. In other words, the centrality of GTM is contingent on its application and improvisation by individual researchers. This in turn, demystifies GTM’s paradigmatic status in CAQDAS use (LONKILA 1995).

In the second Section, two main analytic misconceptions have been further debunked. Firstly, the primacy of GTM as heralding a new orthodoxy or the homogenisation of methodology (COFFEY, HOLBROOK & ATKINSON 1996); and secondly, the primacy of grounded theory coding as imbibed with coding madness or analytic pathologies premised on the reification of coding as analysis per se (WEAVER & ATKINSON 1994, p.20; SEIDEL 1991, p.109; FIELDING & LEE 1998, p.119). A researcher’s reflexivity and agency in charting the direction of his/her analyses through pragmatic view and use of codes as a means and not as an end in itself as I have argued would challenge the allegation that CAQDAS compounds these myths by mythologising GTM
and supporting the injunction to code (LEE & FIELDING 1996). CAQDAS use thus facilitates the rigour of methodology and the transparency of method as manifested in one’s audit trail that in essence constitutes research that is accountable, innovative and effective.

I have since embarked on new research and supervised students, convinced of the wisdom of GTM. Upon reflecting on my academic career, the shift from literary studies to religious studies was facilitated by the commonality of expertise shared, that of textual analysis. Opening my research to empirical data has become for me more gratifying because as researcher, I have a direct hand in generating data (i.e. through interviews) rather than working only with extant texts or archival data. A grounded theory method and methodology serve as tools to enable good science within qualitative researching: data that is valid, method that is reliable and analysis that is generalisable where a positivist science paradigm is still prevalent in some Faculties of Arts and Social Sciences. It becomes a moral even political imperative to ground theory in data particularly in researching on sensitive topics where what is said and more often, what is not said by subjects of research (due to self-censorship), are the basis of ethical researching.

References


