Here are the links of open databases which would be helpful for students to write a master's thesis:

Industry and country level data:

Eurostat: http://ec.europa.eu/eurostat

OCED database: http://stats.oecd.org/: e.g. the division of Science, Technology and Patent

STAN database: http://stats.oecd.org/Index.aspx?DataSetCode=ANBERD_REV4#

NBER database: http://www.nber.org/data/

Maddison Project database: http://www.ggdc.net/maddison/maddison-project/data.htm

EU KLEMS on growth and productivity: http://www.euklems.net/

GGDC on growth, global value chain and historical development: https://www.rug.nl/ggdc/

Patent data:

PATSTAT: https://www.epo.org/searching-for-patents/business/patstat.html#tab1 (with two-month free trial version; and free tutorial on SQL language)

ESPACENET: https://worldwide.espacenet.com/

European patent register: https://register.epo.org/regviewer

IIP database: https://www.iip.or.jp/e/e_patentdb/

PATENTSCORE: http://www.wipo.int/patentscope/en/

Entrepreneurship survey:

GEM (General Entrepreneurship Monitor): http://www.gemconsortium.org/data

Panel Study of Entrepreneurial Dynamics (PSED) http://www.psed.isr.umich.edu/psed/home

(Individuals need to apply for the data)

Mobygame data: http://www.mobygames.com/: see e.g. updates on video game reviews and developers

Databank at the House of Finance

http://safe-frankfurt.de/datacenter/_databases/

Firm level dataset:

GMOP (German Management and Organizational Practices) Survey: This data set relates to the years 2008 and 2013 and contains information on 1927 establishments. Students can apply for on-site data access: https://fdz.iab.de/en/FDZ_Establishment_Data/GMOP.aspx

BHP (Establishment History Panel): This dataset is composed of data since 1975 for West Germany and 1992 for East Germany; data is available via either on-site use application or remote data access application.
https://fdz.iab.de/en/FDZ_Establishment_Data/Establishment_History_Panel/IAB_BHP7516.aspx

IAB Establishment Panel: an annual representative firm survey. It has been conducted by the IAB since 1993 in West Germany and since 1996 for East Germany. This data is also available linked with individual administrative data such as LIAB (Linked Employer/Employee Data). Data is available via on-site use application or remote data access application
https://fdz.iab.de/en/FDZ_Establishment_Data/IAB_Establishment_Panel.aspx

IAB Job Vacancy Survey: Data is available via either on-site use application or remote data access application
https://fdz.iab.de/en/FDZ_Establishment_Data/IAB_Job_Vacancy_Survey.aspx

Database for Asia countries:

CrossAsia: https://crossasia.org/ Goethe university students can apply for the access by filling out the registration application site from the website. This website includes various database related to East Asian countries such as China, Japan and South Korea. The database coverage includes: statistical yearbooks; archival materials; newspaper articles; Chinese academic journals, Nikkei NEEDS Financial QUEST and etc.