**Software Development (HND): Database Design Fundamental (DV6E 34)**

**RDBMS Design – Team Project**

**Project Synopsis:**

You work as a database design engineer with team of other engineers for a database design and software development company with the head office located in Livingston. Your company has just been awarded a project worth £564,500 by a Telecoms market analysis and advisory company. The RDBMS will be used to carry out independent surveys to monitor and control the pricing market of mobile network providers in the UK.

The Telecoms market analysis company also provides independent advice services to mobile phone users to compare prices of different phone brands available across the UK offered by different network providers in order to select the best mobile phone tariff plan.

Your company has appointed your team to design and setup a low cost and efficient RDBMS on MS Access platform to provide the following deliverables shown in the table below.

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| **Project Phase** | **Phase Description** | **Deliverables** |
| 1 | Research, project structure, & data gathering | List of **Network Providers** in the UK |
| List of mobile phone **manufacturers** |
| List of mobile phone **brands** |
| **Cost** of each mobile phone brands |
| 2 | Produce Design Templates | Normalisation document |
| E-R model document |
| Entity description document |
| 3 | RDBMS Design (Microsoft - MS Access) | Operational MS Access RDBMS |
| Normalised Entities vs. Attributes setup (i.e. tables) |
| Entity - data types specified |
| Entity - relationships defined/setup |
| 4 | Queries, forms and reports for interrogating and generating results | **Queries** for interrogating the DB |
| **Forms** for searching keywords, updating DB (i.e. deleting records and adding new, etc.) and navigation |
| **Reports** for producing specific results for operators and customers |