Data Warehouse and Business Intelligence

**Unit 1- Introducing the Technical Architecture**

|  |  |  |
| --- | --- | --- |
| **Q. No** | **Question** | **Co Mapping** |
| 1 | Explain high level technical architecture of DWBI using figure. | CO1 |
| 2 | Compare OLTP and Data warehouse | CO1 |
| 3 | Explain technical architecture of DWBI using figure | CO1 |
| 4 | Explain backroom ETL flow with figure | CO1 |
| 5 | Draw and explain presentation server system architecture | CO1 |
| 6 | Draw and explain front room technical architecture model | CO1 |
| 7 | List BI application types | CO1 |
| 8 | Explain BI management services | CO1 |
| 9 | Explain Parallel Processing Hardware Architectures | CO1 |
| 10 | Explain AI based data warehouse use case example | CO1 |

**Unit 2- Introducing Dimensional Modelling**

|  |  |  |
| --- | --- | --- |
| **Q. No** | **Question** | **Co Mapping** |
| 1 | How would you describe dimension model life cycle components? | CO2 |
| 2 | How would you explain business process analysis. | CO2 |
| 3 | What is grain and define its characteristics and granularity , | CO2 |
| 4 | What is fact table granularity? | CO2 |
| 5 | Compare fact table types | CO2 |
| 6 | Explain four steps dimension design process | CO2 |
| 7 | Illustrate Retail sales grocery store dimensional model | CO2 |
| 8 | Explain dimension meta data and fact table meta data | CO2 |
| 9 | Explain bridge table with example | CO2 |
| 10 | How would you describe enterprise Data  Warehouse Bus Architecture with example | CO2 |

**Unit 3 - Designing the Dimensional Modelling**

|  |  |  |
| --- | --- | --- |
| **Q. No** | **Question** | **Co Mapping** |
| 1 | Explain modelling process overview with figure. | CO2 |
| 2 | Explain types of dimension models with examples | CO2 |
| 3 | Illustrate snowflake schema with example | CO2 |
| 4 | Summarize four step dimension model | CO2 |
| 5 | With neat sketch draw and explain enterprise Datawarehouse architecture | CO2 |
| 6 | Illustrate sales invoicing business process | CO2 |
| 7 | How would you describe life cycle of dimension modeling | CO2 |
| 8 | How to declare grains | CO2 |
| 9 | Draw business process analysis. | CO2 |
| 10 | Illustrate sales invoicing business process | CO2 |