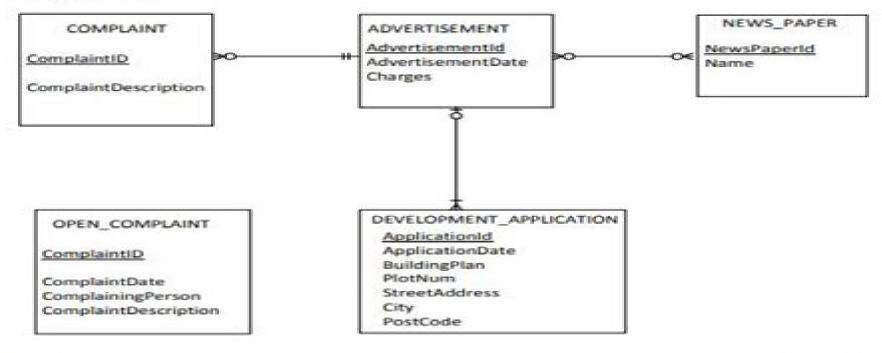
#### DATA MODELLING QUESTIONS

#### Answer ALL questions from this part.

Question 1 and Question 2 are based on the following ER model, which is illustrated in standard ER notations but has been drawn incorrectly and contains many errors.



# Question 1 4 Marks

The above ER diagram is incomplete and has been drawn incorrectly due to the following reasons:

- (a) A COMPLAINT is not related to an advertisement but related to a DEVELOPMENT\_APPLICATION.
- (b) Each OPEN\_COMPLAINT is a COMPLAINT and they should be related to each other.
- (c) Each NEWS\_PAPER charges differently for the same ADVERTISEMENT.
- (d) Relationship names are missing in the ER diagram.

Complete and correct the errors in the given ER diagram and redraw it using standard ER notations only.

200

# **Data Modelling Questions**

**Vamsee Puligadda** 

#### **Data Modelling Questions:**

600 Advanced Interview Questions for Data Modeling Analysts: Design Accurate and Scalable Database Structures CloudRoar Consulting Services, 2025-08-15 Data modeling is the backbone of successful data driven organizations enabling enterprises to transform raw data into actionable insights As businesses increasingly rely on complex systems cloud platforms and analytics the demand for skilled Data Modeling Analysts has never been higher 600 Interview Questions Answers for Data Modeling Analysts CloudRoar Consulting Services is a comprehensive guide tailored for professionals preparing for interviews assessments and real world technical discussions in the field of data modeling and database design This book covers conceptual logical and physical data modeling ensuring readers gain expertise in entity relationship diagrams normalization techniques dimensional modeling schema design and metadata management It also explores how data modeling integrates with ETL processes data warehouses cloud data platforms and business intelligence solutions making it an invaluable resource for candidates aiming to stand out in competitive job markets Aligned with the DAMA Certified Data Management Professional CDMP Data Modeling standards this guide includes 600 practical interview questions and answers that mirror real world challenges faced by Data Modeling Analysts Readers will find role specific content ranging from SQL optimization ER modeling best practices master data management MDM NoSQL data structures and cloud native data modeling for platforms like AWS Redshift Google BigQuery and Snowflake Whether you are a junior analyst entering the field a mid level data engineer expanding your modeling expertise or a senior architect aiming to validate vour knowledge this book provides structured preparation that goes beyond surface level Q A Each answer is designed not only to prepare you for interviews but also to enhance your analytical problem solving skills when working with real datasets Key highlights include 600 curated Q A covering technical scenario based and behavioral interview questions Detailed explanations of conceptual logical and physical data models Best practices for ER diagrams star schema snowflake schema and data warehouse design Cloud focused data modeling techniques for AWS GCP and Azure environments Guidance on integrating data modeling with ETL pipelines BI dashboards and MDM strategies With CloudRoar Consulting s expertise this book is not just an interview prep tool it s a career advancement roadmap for professionals looking to excel as Data Modeling Analysts in modern data driven enterprises **Data Model Scorecard** Steve Hoberman, 2015-11-01 Data models are the main medium used to communicate data requirements from business to IT and within IT from analysts modelers and architects to database designers and developers Therefore it s essential to get the data model right But how do you determine right That's where the Data Model Scorecard comes in The Data Model Scorecard is a data model quality scoring tool containing ten categories aimed at improving the quality of your organization s data models Many of my consulting assignments are dedicated to applying the Data Model Scorecard to my client s data models I will show you how to apply the Scorecard in this book This book written for people who build use or review data models contains the Data Model Scorecard

template and an explanation along with many examples of each of the ten Scorecard categories There are three sections In Section I Data Modeling and the Need for Validation receive a short data modeling primer in Chapter 1 understand why it is important to get the data model right in Chapter 2 and learn about the Data Model Scorecard in Chapter 3 In Section II Data Model Scorecard Categories we will explain each of the ten categories of the Data Model Scorecard There are ten chapters in this section each chapter dedicated to a specific Scorecard category Chapter 4 Correctness Chapter 5 Completeness Chapter 6 Scheme Chapter 7 Structure Chapter 8 Abstraction Chapter 9 Standards Chapter 10 Readability Chapter 11 Definitions Chapter 12 Consistency Chapter 13 Data In Section III Validating Data Models we will prepare for the model review Chapter 14 cover tips to help during the model review Chapter 15 and then review a data model based upon an actual project Chapter Semantic Data Modelling Mr. Rohit Manglik, 2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Mongodb Database Modeler Certification Prep Guide: 350 Questions & **Answers** CloudRoar Consulting Services, 2025-08-15 Prepare for the MongoDB Database Modeler exam with 350 questions and answers covering data modeling schema design normalization aggregation indexing and performance optimization Each question includes explanations and practical examples to ensure exam readiness Ideal for database developers and data architects MongoDBCertification DatabaseModeling SchemaDesign Normalization Aggregation Indexing PerformanceOptimization ExamPreparation TechCertifications ITCertifications CareerGrowth CertificationGuide ProfessionalDevelopment NoSQL DataArchitecture Teradata Database Associate: 350 Practice Questions & Detailed Explanations CloudRoar Consulting Services, 2025-08-15 The Teradata Database Associate certification is a credential that validates your foundational understanding and skills in managing and utilizing Teradata Database environments This certification is designed for professionals who are looking to establish their capabilities in handling Teradata's sophisticated data warehousing solutions It serves as a testament to your ability to navigate and optimize Teradata databases showcasing your adeptness in data management and query optimization which are crucial for any data driven organization. In today s rapidly evolving data landscape the Teradata Database Associate certification holds significant value It s specifically tailored for IT professionals database administrators and data analysts who want to enhance their credibility and expertise in Teradata technologies With the increasing reliance on large scale data analytics companies are in constant search of skilled professionals who can effectively manage and interpret complex datasets This certification not only affirms your technical skills but also signifies your commitment to staying ahead in the competitive field of data analytics where the demand for proficient database management continues to grow Within the 350 Practice Questions Detailed Explanations resource learners will encounter a comprehensive set of questions meticulously crafted to mirror the actual exam s breadth and

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