

# REII414 past papers comaprison

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## 1 2015

- 6 questions:
  - 1:sql Theory
  - 2:entity and referential integrity
  - 3: ERD diagram
  - 4: Dependecies, noprmalization
  - 5: difficult qrys (joins, sums etc)
  - 6: essay: final year project

## 2 2016

- 5 questions:
  - 1: sql Theory
  - 2: entity and referential integrity
  - 3: Dependencies, normalization
  - 4: Difficult queries,(joins, sums etc)
  - 5: essay: game

## 3 Sql Theory

- Data vs information
- Right vs left joins
- ERD principles(Arrow types, redundant relationship)
- Derived attribute
- attributes of a PK
- triggers
- SQL injection

## 4 Entity and referential integrity

**Data Integrity** In a relational database, refers to a condition in which the data in the database is in compliance with all entity and referential integrity constraints

**Entity Integrity** The property of a relational table that guarantees that each entity has a unique value in a primary key and that there are no null values in the primary key.

**Referential Integrity** A condition by which a dependent tables foreign key must have either a null entry or a matching entry in the related table

## 5 Dependencies, Normalization

## 6 Difficult queries

## 7 Essay question

- Database Design  
ERD
- Web programming  
UI  
data-interfacing  
security