Examination

Title

State

Gender

Religion

Candidate
1234 Rob Brown

Category
S Science
A Art
s Social Science

Subject
En English
Ph Physics
Mt Maths
Ch Chemistry
Ec Economics
Ac Accounting

Constrains

Comprises

Fulfils

Registers For

Examination
1234 S

Category
Subject
S En
S Mt
S Ph
S Ch
A En
A Mt
A Ec
A Ac

Produces

Examination Produced

Examination
Result
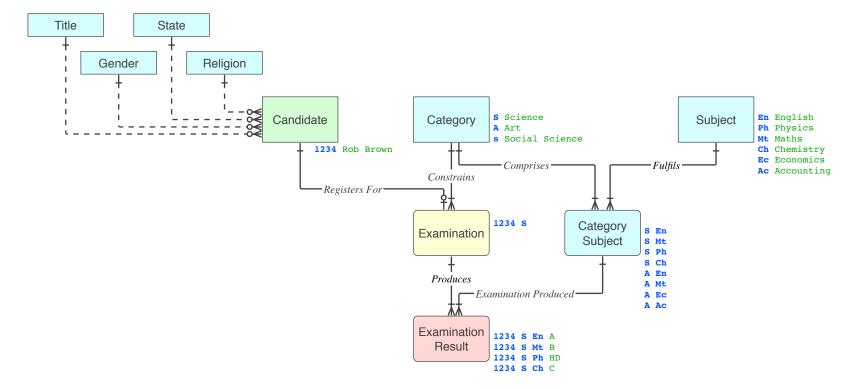**1234 S En** A
1234 S Mt B
1234 S Ph HD
1234 S Ch C

Predicate (Relevant, not All)

```
Each Candidate is independent
    Each Candidate is not uniquely identified
    Each Candidate record is numbered by CandidateId
    Each Candidate registers for 1 Examination

Each Category is independent
    Each Category is uniquely identified by ( CategoryCode )
    Each Category comprises 1-to-n Subjects
    Each Category constrains 1-to-n Examinations

Each Subject is independent
    Each Subject is uniquely identified by ( SubjectCode )
    Each Subject fulfils 1-to-n Categories

Each CategorySubject is dependent on, and identified by, 1 Category
    Each CategorySubject is dependent on, and identified by, 1 Subject
    Each CategorySubject is uniquely identified by ( CategoryCode, SubjectCode )

Each Examination is dependent on, and identified by, 1 Candidate
    Each Examination is dependent on, and identified by, 1 Category
    Each Examination is uniquely identified by ( CandidateId, CategoryCode )
    Each Examination produces 1-to-n ExaminationResults

Each ExaminationResult is dependent on, and identified by, 1 Examination
    Each ExaminationResult is dependent on, and identified by, 1 CategorySubject
    ExaminationResult is uniquely identified by ( CandidateId, CategoryCode, SubjectCode )
```

Entity Type

	Reference
	Identifying/Major
	Identifying
	Transaction
	TransactionDetail
	History, Audit

IDEF1X Notation

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IDEF1X Notation

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