Vak: Databases and Reporting

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ICA Nijmegen - Klas 1E

December 2019

*Fletnix normALISATIE*

DATABASES AND REPORTING

[Nulde normaalvorm 0NV 3](#_Toc30163929)

[Overview movie awards per year 3](#_Toc30163930)

[Eerste normaalvorm 1NV 5](#_Toc30163931)

[Overview movie awards per year 5](#_Toc30163932)

[Tweede normaalvorm 2NV 7](#_Toc30163933)

[Movie 7](#_Toc30163934)

[Person 7](#_Toc30163935)

[Awardshow 8](#_Toc30163936)

[Overview movie awards per year 8](#_Toc30163937)

[Derde normaalvorm 3NV 10](#_Toc30163938)

[Movie 10](#_Toc30163939)

[Person 10](#_Toc30163940)

[Awardshow 11](#_Toc30163941)

[Result 11](#_Toc30163942)

[Overview movie awards per year 11](#_Toc30163943)

Nulde normaalvorm 0NV

De nulde normaalvorm is een niet genormaliseerde tabel. Alle gegevens zijn verwerkt in één tabel met herhalende groepen.

## Overview movie awards per year

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Award (PK)** | **Category**  **(PK)** | **Year**  **(PK)** | **country** | **Movie (ID)**  **(PK)** | **Person (ID)** | **Code** | **Description** |
| Academy  Awards | Best Film Editing | 2000 | The Netherlands | The Matrix (207992) | Zach Staenberg (550813) | W | Won |
| Academy  Awards | Best Film Editing | 2000 | The Netherlands | The Insider (160492) | William Goldenberg (276884) | N | Nominated |
| Academy  Awards | Best Film Editing | 2000 | The Netherlands | The Insider (160492) | Paul Rubell (950001) | N | Nominated |
| Academy  Awards | Best Film Editing | 2000 | The Netherlands | The Insider (160492) | David Rosenbloom (68042) | N | Nominated |
| Academy  Awards | Best Film Editing | 2000 | The Netherlands | The sixt sense (303564) | Andrew Mondshein (54796) | N | Nominated |
| Academy  Awards | Best Sound Effects Editing | 2000 | The Netherlands | Fight club (112290) | Ren Klyce (351397) | N | Nominated |
| Academy  Awards | Best Sound Effects Editing | 2000 | The Netherlands | Fight club (112290) | Richard Hymns (950002) | N | Nominated |
| Academy  Awards | Best Sound Effects Editing | 2000 | The Netherlands | The Matrix (207992) | Dane Davis (950003) | W | Won |
| Academy  Awards | Best Sound Effects Editing | 2000 | The Netherlands | Star Wars: Episode I - the phantom menace (313474) | Ben Burtt (165453) | N | Nominated |
| Academy  Awards | Best Visual Effects | 2000 | The Netherlands | Star Wars: Episode I - the phantom menace (313474) | John Knoll (351981) | N | Nominated |
| Academy  Awards | Best Visual Effects | 2000 | The Netherlands | Star Wars: Episode I - the phantom menace (313474) | Rob Coleman (191712) | N | Nominated |
| Academy  Awards | Best Visual Effects | 2000 | The Netherlands | The Matrix (207992) | John Gaeta (950004) | W | Won |
| Academy  Awards | Best Visual Effects | 2000 | The Netherlands | The Matrix (207992) | Janek Sirrs (540853) | W | Won |
| Academy  Awards | Best Visual Effects | 2000 | The Netherlands | The Matrix (207992) | Steve Courtley (950005) | W | Won |
| Academy  Awards | Best Visual Effects | 2000 | The Netherlands | The Matrix (207992) | Jon Thum (950006) | W | Won |
| BAFTA | Best Sound | 2000 | New Zealand | The Matrix (207992) | David Lee (950007) | W | Won |
| BAFTA | Best Sound | 2000 | New Zealand | The Matrix (207992) | John Reitz (950008) | W | Won |
| BAFTA | Best Sound | 2000 | New Zealand | The Matrix (207992) | Gregg Rudloff (950009) | W | Won |
| BAFTA | Best Sound | 2000 | New Zealand | The Matrix (207992) | David Campbell (950010) | W | Won |
| BAFTA | Best Sound | 2000 | New Zealand | The Matrix (207992) | Dane Davis (950011) | W | Won |
| BAFTA | Best Sound | 2000 | New Zealand | Star Wars: Episode I - the phantom menace (313474) | Ben Burtt (165453) | N | Nominated |
| BAFTA | Best Sound | 2000 | New Zealand | Star Wars: Episode I - the phantom menace (313474) | Tom Bellfort (950012) | N | Nominated |
| BAFTA | Best Sound | 2000 | New Zealand | American Beauty (13789) | Bob Beemer (950013) | N | Nominated |
| BAFTA | Best Cinematography | 2000 | New Zealand | The Matrix (207992) | Dane Davis (950011) | N | Nominated |
| BAFTA | Best Cinematography | 2000 | New Zealand | American Beauty (13789) | Conrad Hall (950015) | W | Won |
| BAFTA | Best Production Design | 2000 | New Zealand | The Matrix (207992) | Owen Paterson (464716) | N | Nominated |
| BAFTA | Best Production Design | 2000 | New Zealand | Sleepy Hollow (304862) | Rick Heinrichs (303143) | W | Won |
| BAFTA | Best Editing | 2000 | New Zealand | The Matrix (207992) | Zach Staenberg (550813) | N | Nominated |
| BAFTA | Best Editing | 2000 | New Zealand | American Beauty (13789) | Tariq Anwar (950016) | W | Won |
| BAFTA | Best Editing | 2000 | New Zealand | American Beauty (13789) | Christopher Greenbury (283753) | W | Won |

Eerste normaalvorm 1NV

De definitie van de eerste normaalvorm luid: Een tabel is in Eerste Normaal Vorm (1NV) als elke cel een atomaire waarde bevat. Om de tabel om te zetten naar eerste normaalvorm krijgen movie\_id en person\_id een eigen kolom. Hierna heeft elke cel een atomaire waarde ofwel er is geen spraken van herhalende groepen.

## Overview movie awards per year

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Award** | **Year** | **Category** | **country** | **Movie**  **ID** | **Movie** | **Person**  **ID** | **Person** | **Code** | **Description** |
| Academy  Awards | 2000 | Best Film Editing | The Netherlands | 207992 | The Matrix | 550813 | Zach Staenberg | W | Won |
| Academy  Awards | 2000 | Best Film Editing | The Netherlands | 160492 | The Insider | 276884 | William Goldenberg | N | Nominated |
| Academy  Awards | 2000 | Best Film Editing | The Netherlands | 160492 | The Insider | 950001 | Paul Rubell | N | Nominated |
| Academy  Awards | 2000 | Best Film Editing | The Netherlands | 160492 | The Insider | 68042 | David Rosenbloom | N | Nominated |
| Academy  Awards | 2000 | Best Film Editing | The Netherlands | 303564 | The sixt sense | 54796 | Andrew Mondshein | N | Nominated |
| Academy  Awards | 2000 | Best Sound Effects Editing | The Netherlands | 112290 | Fight club | 351397 | Ren Klyce | N | Nominated |
| Academy  Awards | 2000 | Best Sound Effects Editing | The Netherlands | 112290 | Fight club | 950002 | Richard Hymns | N | Nominated |
| Academy  Awards | 2000 | Best Sound Effects Editing | The Netherlands | 207992 | The Matrix | 950003 | Dane Davis | W | Won |
| Academy  Awards | 2000 | Best Sound Effects Editing | The Netherlands | 313474 | Star Wars: Episode I - the phantom menace | 165453 | Ben Burtt | N | Nominated |
| Academy  Awards | 2000 | Best Visual Effects | The Netherlands | 313474 | Star Wars: Episode I - the phantom menace | 351981 | John Knoll | N | Nominated |
| Academy  Awards | 2000 | Best Visual Effects | The Netherlands | 313474 | Star Wars: Episode I - the phantom menace | 191712 | Rob Coleman | N | Nominated |
| Academy  Awards | 2000 | Best Visual Effects | The Netherlands | 207992 | The Matrix | 950004 | John Gaeta | W | Won |
| Academy  Awards | 2000 | Best Visual Effects | The Netherlands | 207992 | The Matrix | 540853 | Janek Sirrs | W | Won |
| Academy  Awards | 2000 | Best Visual Effects | The Netherlands | 207992 | The Matrix | 950005 | Steve Courtley | W | Won |
| Academy  Awards | 2000 | Best Visual Effects | The Netherlands | 207992 | The Matrix | 950006 | Jon Thum | W | Won |
| BAFTA | 2000 | Best Sound | New Zealand | 207992 | The Matrix | 950007 | David Lee | W | Won |
| BAFTA | 2000 | Best Sound | New Zealand | 207992 | The Matrix | 950008 | John Reitz | W | Won |
| BAFTA | 2000 | Best Sound | New Zealand | 207992 | The Matrix | 950009 | Gregg Rudloff | W | Won |
| BAFTA | 2000 | Best Sound | New Zealand | 207992 | The Matrix | 950010 | David Campbell | W | Won |
| BAFTA | 2000 | Best Sound | New Zealand | 207992 | The Matrix | 950011 | Dane Davis | W | Won |
| BAFTA | 2000 | Best Sound | New Zealand | 313474 | Star Wars: Episode I - the phantom menace | 165453 | Ben Burtt | N | Nominated |
| BAFTA | 2000 | Best Sound | New Zealand | 313474 | Star Wars: Episode I - the phantom menace | 950012 | Tom Bellfort | N | Nominated |
| BAFTA | 2000 | Best Sound | New Zealand | 13789 | American Beauty | 950013 | Bob Beemer | N | Nominated |
| BAFTA | 2000 | Best Cinematography | New Zealand | 207992 | The Matrix | 950011 | Dane Davis | N | Nominated |
| BAFTA | 2000 | Best Cinematography | New Zealand | 13789 | American Beauty | 950015 | Conrad Hall | W | Won |
| BAFTA | 2000 | Best Production Design | New Zealand | 207992 | The Matrix | 464716 | Owen Paterson | N | Nominated |
| BAFTA | 2000 | Best Production Design | New Zealand | 304862 | Sleepy Hollow | 303143 | Rick Heinrichs | W | Won |
| BAFTA | 2000 | Best Editing | New Zealand | 207992 | The Matrix | 550813 | Zach Staenberg | N | Nominated |
| BAFTA | 2000 | Best Editing | New Zealand | 13789 | American Beauty | 950016 | Tariq Anwar | W | Won |
| BAFTA | 2000 | Best Editing | New Zealand | 13789 | American Beauty | 283753 | Christopher Greenbury | W | Won |

Tweede normaalvorm 2NV

De definitie van de tweede normaalvorm luid: Een tabel is in Tweede Normaal Vorm (2NV) als hij in 1NV is en als alle niet-sleutelattributen functioneel afhankelijk zijn van de GEHELE primaire sleutel.

Functionele afhankelijkheid betekend dat bij een waarde A slechts 1 waarde B kan horen.

Zo hoort er slechts 1 Movie bij elk Movie\_ID.

## Movie

|  |  |
| --- | --- |
| Movie ID | Movie |
| 207992 | The Matrix |
| 160492 | The Insider |
| 303564 | The sixt sense |
| 112290 | Fight club |
| 313474 | Star Wars: Episode I - the phantom menace |
| 13789 | American Beauty |
| 304862 | Sleepy Hollow |

## Person

|  |  |
| --- | --- |
| Person ID | Person |
| 550813 | Zach Staenberg |
| 276884 | William Goldenberg |
| 950001 | Paul Rubell |
| 68042 | David Rosenbloom |
| 54796 | Andrew Mondshein |
| 351397 | Ren Klyce |
| 950002 | Richard Hymns |
| 950003 | Dane Davis |
| 165453 | Ben Burtt |
| 351981 | John Knoll |
| 191712 | Rob Coleman |
| 950004 | John Gaeta |
| 540853 | Janek Sirrs |
| 950005 | Steve Courtley |
| 950006 | Jon Thum |
| 950007 | David Lee |
| 950008 | John Reitz |
| 950009 | Gregg Rudloff |
| 950010 | David Campbell |
| 950012 | Tom Bellfort |
| 950013 | Bob Beemer |
| 950015 | Conrad Hall |
| 464716 | Owen Paterson |
| 303143 | Rick Heinrichs |
| 950016 | Tariq Anwar |
| 283753 | Christopher Greenbury |

## Awardshow

|  |  |  |
| --- | --- | --- |
| **Award** | **Year** | **Country** |
| Academy Awards | 2000 | The Netherlands |
| BAFTA | 2000 | New Zealand |

## Overview movie awards per year

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Award** | **Year** | **Category** | **Movie ID** | **Person ID** | **Code** | **Description** |
| Academy  Awards | 2000 | Best Film Editing | 207992 | 550813 | W | Won |
| Academy  Awards | 2000 | Best Film Editing | 160492 | 276884 | N | Nominated |
| Academy  Awards | 2000 | Best Film Editing | 160492 | 950001 | N | Nominated |
| Academy  Awards | 2000 | Best Film Editing | 160492 | 68042 | N | Nominated |
| Academy  Awards | 2000 | Best Film Editing | 303564 | 54796 | N | Nominated |
| Academy  Awards | 2000 | Best Sound Effects Editing | 112290 | 351397 | N | Nominated |
| Academy  Awards | 2000 | Best Sound Effects Editing | 112290 | 950002 | N | Nominated |
| Academy  Awards | 2000 | Best Sound Effects Editing | 207992 | 950003 | W | Won |
| Academy  Awards | 2000 | Best Sound Effects Editing | 313474 | 165453 | N | Nominated |
| Academy  Awards | 2000 | Best Visual Effects | 313474 | 351981 | N | Nominated |
| Academy  Awards | 2000 | Best Visual Effects | 313474 | 191712 | N | Nominated |
| Academy  Awards | 2000 | Best Visual Effects | 207992 | 950004 | W | Won |
| Academy  Awards | 2000 | Best Visual Effects | 207992 | 540853 | W | Won |
| Academy  Awards | 2000 | Best Visual Effects | 207992 | 950005 | W | Won |
| Academy Awards | 2000 | Best Visual Effects | 207992 | 950006 | W | Won |
| BAFTA | 2000 | Best Sound | 207992 | 950007 | W | Won |
| BAFTA | 2000 | Best Sound | 207992 | 950008 | W | Won |
| BAFTA | 2000 | Best Sound | 207992 | 950009 | W | Won |
| BAFTA | 2000 | Best Sound | 207992 | 950010 | W | Won |
| BAFTA | 2000 | Best Sound | 207992 | 950011 | W | Won |
| BAFTA | 2000 | Best Sound | 313474 | 165453 | N | Nominated |
| BAFTA | 2000 | Best Sound | 313474 | 950012 | N | Nominated |
| BAFTA | 2000 | Best Sound | 13789 | 950013 | N | Nominated |
| BAFTA | 2000 | Best Cinematography | 207992 | 950011 | N | Nominated |
| BAFTA | 2000 | Best Cinematography | 13789 | 950015 | W | Won |
| BAFTA | 2000 | Best Production Design | 207992 | 464716 | N | Nominated |
| BAFTA | 2000 | Best Production Design | 304862 | 303143 | W | Won |
| BAFTA | 2000 | Best Editing | 207992 | 550813 | N | Nominated |
| BAFTA | 2000 | Best Editing | 13789 | 950016 | W | Won |
| BAFTA | 2000 | Best Editing | 13789 | 283753 | W | Won |

Derde normaalvorm 3NV

De definitie van de derde normaalvorm luid: Een tabel is in Derde Normaal Vorm (3NV) als hij in 2NV is en als alle niet-sleutelattributen direct (= niet-transitief) functioneel afhankelijk zijn van de primaire sleutel

## Movie

|  |  |
| --- | --- |
| Movie ID (pk) | Movie |
| 207992 | The Matrix |
| 160492 | The Insider |
| 303564 | The sixt sense |
| 112290 | Fight club |
| 313474 | Star Wars: Episode I - the phantom menace |
| 13789 | American Beauty |
| 304862 | Sleepy Hollow |

## Person

|  |  |
| --- | --- |
| Person ID (pk) | Person |
| 550813 | Zach Staenberg |
| 276884 | William Goldenberg |
| 950001 | Paul Rubell |
| 68042 | David Rosenbloom |
| 54796 | Andrew Mondshein |
| 351397 | Ren Klyce |
| 950002 | Richard Hymns |
| 950003 | Dane Davis |
| 165453 | Ben Burtt |
| 351981 | John Knoll |
| 191712 | Rob Coleman |
| 950004 | John Gaeta |
| 540853 | Janek Sirrs |
| 950005 | Steve Courtley |
| 950006 | Jon Thum |
| 950007 | David Lee |
| 950008 | John Reitz |
| 950009 | Gregg Rudloff |
| 950010 | David Campbell |
| 950012 | Tom Bellfort |
| 950013 | Bob Beemer |
| 950015 | Conrad Hall |
| 464716 | Owen Paterson |
| 303143 | Rick Heinrichs |
| 950016 | Tariq Anwar |
| 283753 | Christopher Greenbury |

## Awardshow

|  |  |  |
| --- | --- | --- |
| **Award (pk)** | **Year (pk)** | **Country (pk)** |
| Academy Awards | 2000 | The Netherlands |
| BAFTA | 2000 | New Zealand |

## Result

|  |  |
| --- | --- |
| **Code (pk)** | **Description** |
| W | Won |
| N | Nominated |

## Overview movie awards per year

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Award (pk)** | **Year (pk)** | **Category (pk)** | **Movie ID (pk)** | **Person ID (pk)** | **Code** |
| Academy Awards | 2000 | Best Film Editing | 207992 | 550813 | W |
| Academy Awards | 2000 | Best Film Editing | 160492 | 276884 | N |
| Academy Awards | 2000 | Best Film Editing | 160492 | 950001 | N |
| Academy Awards | 2000 | Best Film Editing | 160492 | 68042 | N |
| Academy Awards | 2000 | Best Film Editing | 303564 | 54796 | N |
| Academy Awards | 2000 | Best Sound Effects Editing | 112290 | 351397 | N |
| Academy Awards | 2000 | Best Sound Effects Editing | 112290 | 950002 | N |
| Academy Awards | 2000 | Best Sound Effects Editing | 207992 | 950003 | W |
| Academy Awards | 2000 | Best Sound Effects Editing | 313474 | 165453 | N |
| Academy Awards | 2000 | Best Visual Effects | 313474 | 351981 | N |
| Academy Awards | 2000 | Best Visual Effects | 313474 | 191712 | N |
| Academy Awards | 2000 | Best Visual Effects | 207992 | 950004 | W |
| Academy Awards | 2000 | Best Visual Effects | 207992 | 540853 | W |
| Academy Awards | 2000 | Best Visual Effects | 207992 | 950005 | W |
| Academy Awards | 2000 | Best Visual Effects | 207992 | 950006 | W |
| BAFTA | 2000 | Best Sound | 207992 | 950007 | W |
| BAFTA | 2000 | Best Sound | 207992 | 950008 | W |
| BAFTA | 2000 | Best Sound | 207992 | 950009 | W |
| BAFTA | 2000 | Best Sound | 207992 | 950010 | W |
| BAFTA | 2000 | Best Sound | 207992 | 950011 | W |
| BAFTA | 2000 | Best Sound | 313474 | 165453 | N |
| BAFTA | 2000 | Best Sound | 313474 | 950012 | N |
| BAFTA | 2000 | Best Sound | 13789 | 950013 | N |
| BAFTA | 2000 | Best Cinematography | 207992 | 950011 | N |
| BAFTA | 2000 | Best Cinematography | 13789 | 950015 | W |
| BAFTA | 2000 | Best Production Design | 207992 | 464716 | N |
| BAFTA | 2000 | Best Production Design | 304862 | 303143 | W |
| BAFTA | 2000 | Best Editing | 207992 | 550813 | N |
| BAFTA | 2000 | Best Editing | 13789 | 950016 | W |
| BAFTA | 2000 | Best Editing | 13789 | 283753 | W |