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CS-4163

10/16/20

Project 2 [Part 2]

**View 1 SQL:**

CREATE VIEW view1\_updatable AS  
 SELECT \*  
 FROM users  
 WHERE Gender = "F" OR Gender = "T";

|  |  |  |
| --- | --- | --- |
| Id | Name | Gender |
| hardi | Srinivasa Ramanujan | M |
| iRobt | Isaac Asimov | M |
| MobyD | Julian Cayo-Evans | M |
| oilEr | Leonhard Euler | M |
| P0TU5 | Ronald Reagan | M |
| physd | Carl Gauss | M |
| rush3 | Neil Peart | M |

**View 2 SQL:**

CREATE VIEW view2\_nonupdatable AS  
 SELECT DISTINCT \*  
 FROM users

WHERE Gender = "M" OR Gender = "T";

|  |  |  |
| --- | --- | --- |
| Id | Name | Gender |
| ATLAS | Ayn Rand | F |
| compE | Ada Lovelace | F |
| CPMGB | Margaret Thatcher | F |
| DPP16 | Tsai Ing-wen | F |
| et101 | Sophie Germain | F |
| hstrm | Elizabeth Hale | F |

**View 1 Queries:**

SELECT Name  
FROM view1\_updatable;

|  |
| --- |
| Name |
| Srinivasa Ramanujan |
| Isaac Asimov |
| Julian Cayo-Evans |
| Leonhard Euler |
| Ronald Reagan |
| Carl Gauss |
| Neil Peart |

SELECT Name, Gender  
FROM view1\_updatable;

|  |  |
| --- | --- |
| Name | Gender |
| Srinivasa Ramanujan | M |
| Isaac Asimov | M |
| Julian Cayo-Evans | M |
| Leonhard Euler | M |
| Ronald Reagan | M |
| Carl Gauss | M |
| Neil Peart | M |

**View 2 Queries:**

SELECT Name  
FROM view2\_nonupdatable;

|  |
| --- |
| Name |
| Ayn Rand |
| Ada Lovelace |
| Margaret Thatcher |
| Tsai Ing-wen |
| Sophie Germain |
| Elizabeth Hale |

SELECT Name, Gender  
FROM view2\_nonupdatable;

|  |  |
| --- | --- |
| Name | Gender |
| Ayn Rand | F |
| Ada Lovelace | F |
| Margaret Thatcher | F |
| Tsai Ing-wen | F |
| Sophie Germain | F |
| Elizabeth Hale | F |

**Table Update:**

INSERT INTO view1\_updatable (Id, Name, Gender) VALUES ('TESTA', 'Testata Proba', 'T');  
  
UPDATE view1\_updatable   
SET Name = 'Lzzy Hale'  
WHERE Id = 'hstrm';

**Initial Table:**

|  |  |  |
| --- | --- | --- |
| Id | Name | Gender |
| ATLAS | Ayn Rand | F |
| compE | Ada Lovelace | F |
| CPMGB | Margaret Thatcher | F |
| DPP16 | Tsai Ing-wen | F |
| et101 | Sophie Germain | F |
| hardi | Srinivasa Ramanujan | M |
| hstrm | Elizabeth Hale | F |
| iRobt | Isaac Asimov | M |
| MobyD | Julian Cayo-Evans | M |
| oilEr | Leonhard Euler | M |
| P0TU5 | Ronald Reagan | M |
| physd | Carl Gauss | M |
| rush3 | Neil Peart | M |
| X111X | X | V |
| Y111Y | Y | V |

**Updated Table:**

|  |  |  |
| --- | --- | --- |
| Id | Name | Gender |
| ATLAS | Ayn Rand | F |
| compE | Ada Lovelace | F |
| CPMGB | Margaret Thatcher | F |
| DPP16 | Tsai Ing-wen | F |
| et101 | Sophie Germain | F |
| hardi | Srinivasa Ramanujan | M |
| hstrm | Lzzy Hale | F |
| iRobt | Isaac Asimov | M |
| MobyD | Julian Cayo-Evans | M |
| oilEr | Leonhard Euler | M |
| P0TU5 | Ronald Reagan | M |
| physd | Carl Gauss | M |
| rush3 | Neil Peart | M |
| TESTA | Testata Proba | T |
| X111X | X | V |
| Y111Y | Y | V |