

Assignment - 21

Grant and Revoke.

1) Give Amit the right to change the ratings of the customers.

Ans: GRANT UPDATE (rating) ON customers TO Amit;

2) Give Manoj the right to give other users the right to query the Orders table.

Ans: GRANT SELECT ON orders TO Manoj WITH GRANT OPTION;

3) Take the INSERT privilege on Salespeople away from Ajita.

Ans: REVOKE INSERT ON salespeople FROM Ajita;

4) Grant Abhijeet the right to insert or update the Customers table while keeping her possible rating values in the range of 100 to 500.

Ans: CREATE PROCEDURE RestrictedUpdateInsert(

IN cnum INT, IN cname VARCHAR(50), IN city VARCHAR(50),

IN rating INT, IN snum INT)

BEGIN

IF rating BETWEEN 100 AND 500 THEN

INSERT INTO customers (cnum, cname, city, rating, snum)

VALUES (cnum, cname, city, rating, snum)

ON DUPLICATE KEY UPDATE cname = cname, city = city, rating = rating, snum = snum;

ELSE

SIGNAL SQLSTATE '45000'

SET MESSAGE_TEXT = 'Rating must be between 100 and 500';

END IF;

END;

GRANT EXECUTE ON PROCEDURE RestrictedUpdateInsert TO Abhijeet;

5) Allow Vikram to query the Customers table, but restrict his access to those customers whose rating is the lowest.

Ans:

CREATE VIEW LowestRatedCustomers AS

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SELECT *  
FROM customers  
WHERE rating = (SELECT MIN(rating) FROM customers);  
  
GRANT SELECT ON LowestRatedCustomers TO Vikram;
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