Sample data to test query:

CREATE TABLE Employee(EmpID integer PRIMARY KEY, EmpName varchar2(30),Date\_of\_birth DATE);

INSERT INTO Employee VALUES(1,'Tom','06-JUN-1989');

INSERT INTO Employee VALUES(2,'Brad','06-JUL-1992');

INSERT INTO Employee VALUES(3,'Deron','06-JUL-1993');

INSERT INTO Employee VALUES(4,'Deron','16-MAR-1991');

INSERT INTO Employee VALUES(5,'Akshay','06-DEC-1991');

INSERT INTO Employee VALUES(6,'Dan','06-DEC-1985');

CREATE TABLE Salary(Salary INTEGER,EmpID INTEGER PRIMARY KEY,FOREIGN KEY(EmpID) REFERENCES Employee(EmpID));

INSERT INTO SALARY VALUES(3000,1);

INSERT INTO SALARY VALUES(2000,2);

INSERT INTO SALARY VALUES(1000,3);

INSERT INTO SALARY VALUES(4000,4);

INSERT INTO SALARY VALUES(5000,5);

INSERT INTO SALARY VALUES(4000,6);

SQL Query to find Nth Largest Salary

SELECT e.EmpName, s.Salary FROM Employee e, Salary s where e.EmpID=s.EmpID and 3=(SELECT COUNT(DISTINCT Salary) FROM Salary p WHERE s.Salary<=p.Salary);

Above, will give 3rd largest salary. N can be replaced by any number.

1B) Update Salary to 5000 whose age is 30+

UPDATE Salary s set s.salary = 8000 where exists (select \* from employee b where b.EMPID = s.EMPID and MONTHS\_BETWEEN (sysdate, b.DATE\_OF\_BIRTH)/12 >30);

Positive Test cases on Promo code application

1. Click on promo code link and promo code dialog box should open and it should have a promo code field and apply button.
2. Check that all available promo codes for a user is listed on dialog box and are enabled.
3. Check if NEW30 promo code and other promo codes are applicable as per requirements.
4. Check that for a transaction of 1700, 30% percent discount is applied after applying NEW30 promo code for new users and total is correct.
5. Check that promo code is applicable on all eligible times.
6. Check that user is signed in before applying the discount coupon.
7. Check if payment gateway is working fine after applying discount coupon.
8. Check the discounted price shown on payment page is same as that on other pages and payment gateway.
9. Verify the payment amount deducted from bank is same as shown on the product page.
10. Verify the coupon is applicable and discount amount is correct when the transaction is of exactly Rs1500.
11. Check the promo code NEW30 for guest user.
12. Check the payment is getting done with several payment methods on payment gateway.
13. Assuming that the network has gone during transaction and promo code can be applied only once, when tries to access promo codes available, the NEW30 promo code should be available.
14. Check that the maximum discount is less than equal to 300 on eligible orders.
15. Check that user is able to enter maximum of 7 characters in promo code field.
16. Check that promo code is applicable in small case letter and mixed case too eg. new30
17. Check that promo code is applicable with trailing and leading spaces.
18. Check that promo code is available after failed transaction after user click back button on browser.
19. Check the maximum no of characters that can be entered in promo code is 7.
20. Check that promo code details are getting stored in DB in users transaction table.
21. Verify that the validation message is displayed to user when promo code service is down.
22. Try to place order one by one quickly to access performance effect on the app.
23. Verify the transaction is successful when multiple users are trying to apply the same promo code.
24. Verify the booking flow for users who haven’t applied the promo code. Verify that the total billing amount and discount should be 0.
25. Assuming that promo code can be removed from payment page, try and remove the promo code and verify the new total price and discount.
26. Check that promo code is applicable in different customer location.
27. Verify the tax calculation on all orders after the promo code is added.
28. Verify the total billing amount and discount when promo code is applied and currency is changed for instance to USD.

Negative:

1. Reapply the applied discount coupon and check if discount is not applied again.
2. Check that the promo code is not available for existing user.
3. Check promo code NEW30 is not applicable for transaction less than Rs 1500
4. Try using expired promo codes and verify the total amount. Check validation message.
5. Try using the promo codes which are invalid or still in development.
6. Don’t write anything on promo code field and click on apply. Promo code shouldn’t be applied. Check validation message.
7. Try to select unsupported payment method for the promo code and check the validation message.
8. Apply promo codes that are available to other users but not to new users.
9. Try to apply multiple promo codes with comma separated values. It should not be applicable.
10. Try blank spaces as “ ” promo code and verify if it’s applicable.
11. Try and enter more than 7 characters in promo code. Check validation message on clicking apply.
12. Check that window is not scrollable while promo code dialog box is open.
13. When two users are using a same ID and trying to apply the same promo code, only 1 user should be able to take the discount not more than 300.
14. Try to apply promo code having only numbers or only characters. Should comply with regex.
15. Assuming one promo code is already applied, try to apply another promo code.
16. Check if promo code is applicable on ineligible items.
17. Set the system to idle for some time. Check the availability of promo code after session timed out.

Edge Case Scenario:

1. Check the discount when the total billing amount is less than 1500. Eg 1499
2. Check the discount when the total billing amount is more than 1500 eg 1501.
3. Check the discount when the total billing amount is rounded off (up) eg 1499.88
4. Verify the promo code is applicable when it is having 7 characters.

3 Test cases on prime number

1. It should take only number.
2. number should not contain fraction or decimal
3. Number should be divisible by 1 and itself.
4. Number should not have spaces.
5. Number should not have special characters.
6. If numbers is divisible by any other number than 1 then remainder should be 1.