

REQ501) 회원은 누적 결제 금액을 조회 할 수 있어야 한다.

userID가 1인 회원의 누적 결제 금액 조회

```
SELECT sub.userID,  
       SUM(sub.totalPrice) AS total_sum  
FROM (  
  SELECT u.userID, ri.totalPrice  
  FROM USER u  
       LEFT OUTER JOIN roomreservation rr ON  
rr.userID = u.userID  
       LEFT OUTER JOIN reservinfo ri ON  
ri.reservationID = rr.reservationID  
) sub  
WHERE sub.userID = 1  
GROUP BY sub.userID;
```

```
14 -- REQ501) 회원은 누적 결제 금액을 조회 할 수 있어야 한다.  
15 -- userID가 1인 회원의 누적 결제 금액 조회  
16 SELECT sub.userID,  
17       SUM(sub.totalPrice) AS total_sum  
18 FROM (  
19   SELECT u.userID, ri.totalPrice  
20   FROM USER u  
21   LEFT OUTER JOIN roomreservation rr ON rr.userID = u.userID  
22   LEFT OUTER JOIN reservinfo ri ON ri.reservationID = rr.reservationID  
23 ) sub  
24 WHERE sub.userID = 1  
25 GROUP BY sub.userID;
```

결과 #1 (1r × 2c)

#	userID	total_sum
1	1	50,000

REQ502) 회원은 지난 결제 이력을 조회 할 수 있어야 한다.

userID가 1인 회원의 결제 이력 조회

```
SELECT u.userID,
       u.userName,
       rr.reservationID,
       rr.roomID,
       ri.reservationDate,
       ri.totalPrice,
       ri.paymentCheck,
       p.payDate
FROM USER u
INNER JOIN roomreservation rr ON rr.userID =
u.userID
INNER JOIN reservinfo ri ON ri.reservationID =
rr.reservationID
INNER JOIN payment p ON p.reservationID =
rr.reservationID
WHERE u.userID = 1;
```

```
58 -- 회원은 지난 결제 이력을 조회 할 수 있어야 한다.
59 -- userID가 1인 회원의 결제 이력 조회
60 SELECT u.userID,
61        u.userName,
62        rr.reservationID,
63        rr.roomID,
64        ri.reservationDate,
65        ri.totalPrice,
66        ri.paymentCheck,
67        p.payDate
68 FROM USER u
69 INNER JOIN roomreservation rr ON rr.userID = u.userID
70 INNER JOIN reservinfo ri ON ri.reservationID = rr.reservationID
71 INNER JOIN payment p ON p.reservationID = rr.reservationID
72 WHERE u.userID = 1;
```

USER (2r x 8c)								
#	userID	username	reservationID	roomID	reservationDate	totalPrice	paymentCheck	payDate
1	1	John	1	1	2024-05-20	30000	N	2024-05-20
2	1	John	6	3	2024-05-25	20000	Y	2024-05-25

REQ601) 새로운 스터디룸(이름, 크기, 수용가능인원, 방번호)을 추가할 수 있다																																																																																					
roomID가 11이고 수용가능 인원이 60명인 'Party Room'인 방 추가																																																																																					
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select * from room;	<div>83</div> <div>SELECT * FROM room;</div>																																																																																				
	<div>room (10r x 6c)</div> <table><tr><th>#</th><th>roomID</th><th>roomNo</th><th>capacity</th><th>price</th><th>description</th><th>reservationCheck</th></tr><tr><td>1</td><td>1</td><td>101</td><td>2</td><td>100</td><td>Cozy room with a queen bed and ocean view</td><td>N</td></tr><tr><td>2</td><td>2</td><td>102</td><td>4</td><td>200</td><td>Spacious suite with two bedrooms and a kitchen</td><td>N</td></tr><tr><td>3</td><td>3</td><td>103</td><td>1</td><td>80</td><td>Single room with a single bed and city view</td><td>N</td></tr><tr><td>4</td><td>4</td><td>104</td><td>2</td><td>120</td><td>Modern room with a king bed and mountain view</td><td>N</td></tr><tr><td>5</td><td>5</td><td>105</td><td>3</td><td>150</td><td>Family room with a bunk bed and play area</td><td>N</td></tr><tr><td>6</td><td>6</td><td>106</td><td>2</td><td>110</td><td>Deluxe room with a double bed and balcony</td><td>N</td></tr><tr><td>7</td><td>7</td><td>107</td><td>2</td><td>90</td><td>Standard room with a double bed and garden ...</td><td>N</td></tr><tr><td>8</td><td>8</td><td>108</td><td>1</td><td>70</td><td>Economy room with a single bed and no view</td><td>N</td></tr><tr><td>9</td><td>9</td><td>109</td><td>4</td><td>250</td><td>Luxury suite with a living room and jacuzzi</td><td>N</td></tr><tr><td>10</td><td>10</td><td>110</td><td>2</td><td>130</td><td>Executive room with a king bed and office space</td><td>N</td></tr></table>	#	roomID	roomNo	capacity	price	description	reservationCheck	1	1	101	2	100	Cozy room with a queen bed and ocean view	N	2	2	102	4	200	Spacious suite with two bedrooms and a kitchen	N	3	3	103	1	80	Single room with a single bed and city view	N	4	4	104	2	120	Modern room with a king bed and mountain view	N	5	5	105	3	150	Family room with a bunk bed and play area	N	6	6	106	2	110	Deluxe room with a double bed and balcony	N	7	7	107	2	90	Standard room with a double bed and garden ...	N	8	8	108	1	70	Economy room with a single bed and no view	N	9	9	109	4	250	Luxury suite with a living room and jacuzzi	N	10	10	110	2	130	Executive room with a king bed and office space	N							
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INSERT INTO room (roomID, roomNo, capacity, price, description, reservationCheck) VALUES (11, 111, 60, '40000', 'Party Room', 'N');	<div>84</div> -- 새로운 스터디룸(이름, 크기, 수용가능인원, 위치or방번호)을 추가할 수 있다 <div>85</div> -- roomID가 11이고 수용가능 인원이 60명인 'Party Room'인 방 추가 <div>86</div> INSERT INTO room (roomID, roomNo, capacity, price, description, reservationCheck) VALUES <div>87</div> ((11, 111, 60, '40000', 'Party Room', 'N'));																																																																																				
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REQ602) 데이터베이스에 저장된 모든 스타디움을 조회할 수 있다

SELECT * FROM room;

90 -- 데이터베이스에 저장된 모든 스타디움을 조회할 수 있다
91 SELECT * FROM room;

room (11r x 6c)						
#	roomID	roomNo	capacity	price	description	reservationCheck
1	1	101	2	100	Cozy room with a queen bed and ocean view	N
2	2	102	4	200	Spacious suite with two bedrooms and a kitchen	N
3	3	103	1	80	Single room with a single bed and city view	N
4	4	104	2	120	Modern room with a king bed and mountain view	N
5	5	105	3	150	Family room with a bunk bed and play area	N
6	6	106	2	110	Deluxe room with a double bed and balcony	N
7	7	107	2	90	Standard room with a double bed and garden ...	N
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9	9	109	4	250	Luxury suite with a living room and jacuzzi	N
10	10	110	2	130	Executive room with a king bed and office space	N
11	11	111	60	40000	Party Room	N

REQ603) 기존의 스타디룸 정보를 수정할 수 있다	
roomNo가 104인 스타디룸의 가격을 250원으로 수정	
수정 전 104번 방 정보 조회	
SELECT * FROM room WHERE roomNo = 104;	<div>97 SELECT * 98 FROM room 99 WHERE roomNo = 104;</div>
	<div>room (1r x 6c) # roomID roomNo capacity price description reservationCheck 1 4 104 2 120 Modern room with a king bed and mountain view N</div>
UPDATE room SET price = '250' WHERE roomNo = '104';	<div>100 -- 기존의 스타디룸 정보를 수정할 수 있다 101 -- roomNo가 104인 스타디룸의 가격을 250원으로 수정 102 UPDATE room 103 SET price = '250' 104 WHERE roomNo = '104';</div>
수정 후 104번 방 정보 조회	
SELECT * FROM room WHERE roomNo = 104;	<div>106 SELECT * 107 FROM room 108 WHERE roomNo = 104;</div>
	<div>room (1r x 6c) # roomID roomNo capacity price description reservationCheck 1 4 104 2 120 Modern room with a king bed and mountain view N</div>

REQ604) 특정 스터디룸을 삭제할 수 있다																																																																																					
roomID가 4인 스터디룸 삭제																																																																																					
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SELECT * FROM room;	<div>116</div> <div>SELECT * FROM room;</div> <div>117</div>																																																																																				
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DELETE FROM room WHERE roomID = 4;	<div>111</div> <div>-- 특정 스터디룸을 삭제할 수 있다</div> <div>112</div> <div>-- roomID가 4인 스터디룸 삭제</div> <div>113</div> <div>DELETE</div> <div>114</div> <div>FROM room</div> <div>115</div> <div>WHERE roomID = 4;</div> <div>116</div>																																																																																				
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REQ702) 데이터베이스에 저장된 모든 예약정보를 조회할 수 있다

v_roomreserv라는 뷰 생성

```
CREATE OR REPLACE VIEW v_roomreserv
AS SELECT u.userID,
```

```
        u.email,
        u.userPW,
        u.userName,
        u.userNo,
        u.addr,
        u.phone,
        u.level,
        rr.reservationID,
        rr.roomID,
        rr.roomNO,
        r.capacity,
        r.price,
        r.description,
        r.reservationCheck,
        p.payID,
        p.account,
        p.payDate,
        ri.infolD,
        ri.reservationDate,
        ri.totalPrice,
        ri.paymentCheck
```

FROM user u

LEFT OUTER JOIN roomreservation rr ON u.userID
= rr.userID

LEFT OUTER JOIN room r ON r.roomID = rr.roomID

LEFT OUTER JOIN payment p ON p.reservationID
= rr.reservationID

LEFT OUTER JOIN reservinfo ri ON ri.reservationID
= rr.reservationID;

```
SELECT *
FROM v_roomreserv;
```

```
121 -- 데이터베이스에 저장된 모든 예약정보를 조회할 수 있다
122 -- v_roomreserv라는 뷰 생성
123 CREATE OR REPLACE VIEW v_roomreserv
124 AS SELECT u.userID,
125         u.email,
126         u.userPW,
127         u.userName,
128         u.userNo,
129         u.addr,
130         u.phone,
131         u.level,
132         rr.reservationID,
133         rr.roomID,
134         rr.roomNO,
135         r.capacity,
136         r.price,
137         r.description,
138         r.reservationCheck,
139         p.payID,
140         p.account,
141         p.payDate,
142         ri.infolD,
143         ri.reservationDate,
144         ri.totalPrice,
145         ri.paymentCheck
146 FROM user u
147 LEFT OUTER JOIN roomreservation rr ON u.userID = rr.userID
148 LEFT OUTER JOIN room r ON r.roomID = rr.roomID
149 LEFT OUTER JOIN payment p ON p.reservationID = rr.reservationID
150 LEFT OUTER JOIN reservinfo ri ON ri.reservationID = rr.reservationID;
```

v_roomreserv															
userID	email	userPW	userName	userNo	addr	phone	level	reservationID	roomID	roomNO	capacity	price	description	reservationCheck	payID
1	user1@naver.com	12345678	user1	001	123 Main St, City, Country	010-1234-5678	1	1	1	1	1	100	Only room with a queen bed and corner view	N	1
2	user2@naver.com	87654321	user2	002	456 Main St, City, Country	010-9876-5432	2	2	2	2	200	Single room with a single bed and city view	N	2	
3	user3@naver.com	11223344	user3	003	789 Main St, City, Country	010-1122-3344	3	3	3	3	300	Double room with two single beds and city view	N	3	
4	user4@naver.com	55667788	user4	004	101 Main St, City, Country	010-5566-7788	4	4	4	4	400	Single room with a single bed and city view	N	4	
5	user5@naver.com	99887766	user5	005	112 Main St, City, Country	010-9988-7766	5	5	5	5	500	Double room with two single beds and city view	N	5	
6	user6@naver.com	33445566	user6	006	401 Park St, City, Country	010-3344-5566	6	6	6	6	600	Single room with a single bed and city view	N	6	
7	user7@naver.com	77889900	user7	007	501 Main St, City, Country	010-7788-9900	7	7	7	7	700	Double room with two single beds and city view	N	7	
8	user8@naver.com	22334455	user8	008	601 Main St, City, Country	010-2233-4455	8	8	8	8	800	Single room with a single bed and city view	N	8	
9	user9@naver.com	66778899	user9	009	701 Main St, City, Country	010-6677-8899	9	9	9	9	900	Double room with two single beds and city view	N	9	
10	user10@naver.com	00112233	user10	010	801 Main St, City, Country	010-0011-2233	10	10	10	10	1000	Single room with a single bed and city view	N	10	
11	user11@naver.com	44556677	user11	011	901 Main St, City, Country	010-4455-6677	11	11	11	11	1100	Double room with two single beds and city view	N	11	
12	user12@naver.com	88990011	user12	012	1001 Main St, City, Country	010-8899-0011	12	12	12	12	1200	Single room with a single bed and city view	N	12	
13	user13@naver.com	22001122	user13	013	1101 Main St, City, Country	010-2200-1122	13	13	13	13	1300	Double room with two single beds and city view	N	13	
14	user14@naver.com	66002233	user14	014	1201 Main St, City, Country	010-6600-2233	14	14	14	14	1400	Single room with a single bed and city view	N	14	
15	user15@naver.com	00003344	user15	015	1301 Main St, City, Country	010-0000-3344	15	15	15	15	1500	Double room with two single beds and city view	N	15	
16	user16@naver.com	44004455	user16	016	1401 Main St, City, Country	010-4400-4455	16	16	16	16	1600	Single room with a single bed and city view	N	16	
17	user17@naver.com	88005566	user17	017	1501 Main St, City, Country	010-8800-5566	17	17	17	17	1700	Double room with two single beds and city view	N	17	
18	user18@naver.com	22006677	user18	018	1601 Main St, City, Country	010-2200-6677	18	18	18	18	1800	Single room with a single bed and city view	N	18	
19	user19@naver.com	66007788	user19	019	1701 Main St, City, Country	010-6600-7788	19	19	19	19	1900	Double room with two single beds and city view	N	19	
20	user20@naver.com	00008899	user20	020	1801 Main St, City, Country	010-0000-8899	20	20	20	20	2000	Single room with a single bed and city view	N	20	

REQ704) 기존의 예약 내역을 수정할 수 있다

reservationID가 5인 사람의 예약일을 2024년 5월 30일로 변경

수정 전 예약내역 조회

```
SELECT *
FROM roomreservation r
LEFT OUTER JOIN reservinfo ri ON r.reservationID
= ri.reservationID
LEFT OUTER JOIN payment p ON p.reservationID
= r.reservationID;
```

```
168 SELECT *
169 FROM roomreservation r
170 LEFT OUTER JOIN reservinfo ri ON r.reservationID = ri.reservationID
171 LEFT OUTER JOIN payment p ON p.reservationID = r.reservationID;
```

roomreservation (r = 124)											
#	reservationID	roomID	roomID	roomID	reservationID	reservationDate	stayPrice	paymentCheck	payID	reservationID	account
1	1	1	1	1	1	2024-05-20	30000	N	1	1	123456789
2	2	2	2	2	2	2024-05-21	40000	Y	2	2	234567890
3	3	3	3	3	3	2024-05-22	60000	N	3	3	345678901
4	4	4	4	4	4	2024-05-24	80000	Y	4	4	456789012
5	5	5	5	5	5	2024-05-25	20000	Y	5	5	567890123

```
UPDATE reservinfo AS ri
LEFT JOIN roomreservation AS r
ON r.reservationID = ri.reservationID
LEFT JOIN payment AS p
ON p.reservationID = r.reservationID
SET reservationDate = '2024-05-30'
WHERE r.reservationID = 5;
```

```
158 -- 기존의 예약 정보를 수정할 수 있다
159 -- reservationID가 5인 사람의 예약일을 2024년 5월 30일로 변경
160 UPDATE reservinfo AS ri
161 LEFT JOIN roomreservation AS r
162 ON r.reservationID = ri.reservationID
163 LEFT JOIN payment AS p
164 ON p.reservationID = r.reservationID
165 SET reservationDate = '2024-05-30'
166 WHERE r.reservationID = 5;
```

수정 후 예약내역 조회

```
SELECT *
FROM roomreservation r
LEFT OUTER JOIN reservinfo ri ON r.reservationID
= ri.reservationID
LEFT OUTER JOIN payment p ON p.reservationID
= r.reservationID;
```

```
168 SELECT *
169 FROM roomreservation r
170 LEFT OUTER JOIN reservinfo ri ON r.reservationID = ri.reservationID
171 LEFT OUTER JOIN payment p ON p.reservationID = r.reservationID;
```


roomreservation (5x 12s)												
#	reservationID	userID	rentID	infID	reservationID	reservationDate	totalPrice	paymentCheck	payID	reservationID	account	payDate
1	1	1	1	1	1	2024-05-20	30000	N		1	1234567890	2024-05-20
2	2	2	2	2	2	2024-05-21	40000	Y	2	2345678901	2024-05-21	
3	3	3	3	3	3	2024-05-22	50000	N		3	3456789012	2024-05-22
4	4	4	4	4	4	2024-05-23	60000	Y	4	5678901234	2024-05-24	
5	5	5	5	5	5	2024-05-25	20000	Y	5	6789012345	2024-05-25	

REQ706) 회원은 예약한 스터디룸을 취소할 수 있다

reservationID가 3인 사람의 예약을 취소

스터디룸 취소 전 예약 내역 조회

```
SELECT u.userName,
       u.phone,
       r.reservationID,
       ri.reservationDate,
       ri.totalPrice,
       ri.paymentCheck,
       p.payDate
FROM user u
LEFT OUTER JOIN roomreservation r ON u.userID
= r.userID
LEFT OUTER JOIN reservinfo ri ON r.reservationID
= ri.reservationID
LEFT OUTER JOIN payment p ON p.reservationID
= r.reservationID;
```

```
185 SELECT u.userName,
186        u.phone,
187        r.reservationID,
188        ri.reservationDate,
189        ri.totalPrice,
190        ri.paymentCheck,
191        p.payDate
192 FROM user u
193 LEFT OUTER JOIN roomreservation r ON u.userID = r.userID
194 LEFT OUTER JOIN reservinfo ri ON r.reservationID = ri.reservationID
195 LEFT OUTER JOIN payment p ON p.reservationID = r.reservationID;
```

user (21r x 7c)							
#	userName	phone	reservationID	reservationDate	totalPrice	paymentCheck	payDate
1	John	123-456-7890	1	2024-05-20	30000	N	2024-05-20
2	John	123-456-7890	6	2024-05-25	20000	Y	2024-05-25
3	Jane	234-567-8901	2	2024-05-21	45000	Y	2024-05-21
4	David	345-678-9012	3	2024-05-22	60000	N	2024-05-22
5	Emily	456-789-0123	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)
6	Michael	567-890-1234	5	2024-05-30	90000	Y	2024-05-24
7	Sarah	678-901-2345	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)
8	Daniel	789-012-3456	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)
9	Jessica	890-123-4567	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)
10	Andrew	901-234-5678	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)
11	Amanda	012-345-6789	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)
12	Christopher	123-456-7890	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)
13	Megan	234-567-8901	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)
14	Justin	345-678-9012	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)
15	Lauren	456-789-0123	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)
16	Ashley	567-890-1234	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)
17	Ryan	678-901-2345	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)
18	Samantha	789-012-3456	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)
19	Brandon	890-123-4567	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)
20	Melissa	901-234-5678	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)
21	Alexandra	012-345-6789	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)

```
DELETE r, ri, p
FROM roomreservation AS r
LEFT OUTER JOIN reservinfo AS ri
ON r.reservationID = ri.reservationID
LEFT OUTER JOIN payment AS p
ON p.reservationID = r.reservationID
WHERE r.reservationID = 3;
```

```
175 -- 회원은 예약한 스터디룸을 취소할 수 있다
176 -- reservationID가 3인 사람의 예약을 취소
177 DELETE r, ri, p
178 FROM roomreservation AS r
179 LEFT OUTER JOIN reservinfo AS ri
180 ON r.reservationID = ri.reservationID
181 LEFT OUTER JOIN payment AS p
182 ON p.reservationID = r.reservationID
183 WHERE r.reservationID = 3;
```

스터디룸 취소 전 예약 내역 조회

REQ709) 스위트룸이 예약이 되었는지 예약이 가능한지 예약 상태 여부를 확인할 수 있다

```
SELECT r.roomID,
       r.roomNO,
       r.capacity,
       r.price,
       r.description,
       r.reservationCheck
FROM room r
LEFT OUTER JOIN roomreservation rr ON r.roomID
= rr.roomID;
```

```
198 -- 스위트룸이 예약이 되었는지 예약이 가능한지 예약 상태 여부를 확인할 수 있다
199 SELECT r.roomID,
200        r.roomNO,
201        r.capacity,
202        r.price,
203        r.description,
204        r.reservationCheck
205 FROM room r
206 LEFT OUTER JOIN roomreservation rr ON r.roomID = rr.roomID;
```

room (10r x 6c)						
#	roomID	roomNO	capacity	price	description	reservationCheck
1	1	101	2	100	Cozy room with a queen bed and ocean view	N
2	2	102	4	200	Spacious suite with two bedrooms and a kitchen	N
3	3	103	1	80	Single room with a single bed and city view	N
4	5	105	3	150	Family room with a bunk bed and play area	N
5	6	106	2	110	Deluxe room with a double bed and balcony	N
6	7	107	2	90	Standard room with a double bed and garden ...	N
7	8	108	1	70	Economy room with a single bed and no view	N
8	9	109	4	250	Luxury suite with a living room and jacuzzi	N
9	10	110	2	130	Executive room with a king bed and office space	N
10	11	111	60	40000	Party Room	N