

1. **IN:** Select passenger information where passenger age is 22 or 21.

```
SELECT *  
FROM Passenger  
WHERE P_age IN ('22','21');
```

Results	Explain	Describe	Saved SQL	Histo
PNAME	PID	PSEX	P_AGE	TID
Olivia	6	Female	22	6
Amelia	16	Female	21	16

2 rows returned in 0.02 seconds [Download](#)

2. **NOT IN:** Select staff information where age of staff is not present in the given sequence.

```
SELECT *  
FROM Staff  
WHERE Sage not IN ('22','21','25','34','24','30','26','27','28','29','32');
```

Results Explain Describe Saved SQL History

SID	CID	SNAME	SAGE	SSALARY	SSEX	POST
7	5	Aryan	23	21000	Male	Accountant
10	8	Neha	31	30000	Female	Manager
14	11	Komal	33	21000	Female	Accountant
18	15	Tina	35	25000	Female	Supervisor
20	17	Sakshi	36	20000	Female	Clerk

5 rows returned in 0.01 secondsDownload

3. **EXIST:** Selects passenger name if the record exists in the subquery.

```
SELECT Pname  
FROM Passenger  
WHERE EXISTS  
(SELECT Destination FROM Ticket WHERE passenger.Tid = ticket.Tid AND Tid>15);
```

Results [explain](#)

PNAME
Amelia
Alexander
Abigail
Daniel
Emily

5 rows returned in 0.0001 seconds

4. **NOT EXIST:** Selects only those passenger name which do not exist in the subquery.

```
SELECT Pname
FROM Passenger
WHERE Not EXISTS
(SELECT Destination FROM Ticket WHERE passenger.Tid = ticket.Tid AND Tid<18);
```

Results	Explain	Describe	Saved SQL	Histor
PNAME				
Abigail				
Daniel				
Emily				
3 rows returned in 0.00 seconds Download				

5. **ANY:** Lists destination if there is any record in passenger table with ticket id greater than 15.

```
SELECT Destination
FROM ticket
WHERE Tid = ANY
(SELECT Tid
FROM Passenger
WHERE tid>15);
```

Results	Explain	Describe	Saved SQL	History
DESTINATION				
Nagpur				
Delhi				
Lucknow				
Surat				
Surat				
5 rows returned in 0.00 seconds Download				

6. **ALL:** Display the list of all destination where ticket ID is 15

```
SELECT Destination
FROM ticket
WHERE Tid = ALL
(SELECT Tid
FROM Passenger
WHERE tid=15);
```

Results	Explain	Describe	Saved SQL	History
DESTINATION				
Mumbai				
1 rows returned in 0.00 seconds Download				

7. **Subquery: 3 level subquery**

This subquery retrieves all the ticket information for buses belonging to a company with the name 'ABC Bus Company'. The first level of the subquery selects the ticket information from the ticket table. The second level selects the bus id values from the bus table where the company id matches a company id from the buscompany table. The third level selects the company id value from the buscompany table where the company name matches 'ABC Bus Company'.

```
SELECT *
FROM ticket
WHERE bid IN (
    SELECT bid
    FROM bus
    WHERE cid IN (
        SELECT cid
        FROM buscompany
        WHERE cname = 'ABC Bus Company'
    )
);
```

Results	Explain	Describe	Saved SQL	History
TID	DESTINATION	ARRIVALTIME	DEPARTURETIME	BID
1	Delhi	25-MAR-23 09.30.00.00 AM	25-MAR-23 08.00.00.00 AM	1
1 rows returned in 0.01 seconds Download				

8. **Correlated query:** List ticket information with bus id where bus id is 10.

```
SELECT a.tid,a.destination,a.arrivaltime,a.bid
FROM ticket a
WHERE a.bid=(
SELECT b.bid
FROM bus b WHERE b.bid=13);
```

Results Explain Describe Saved SQL History

TID	DESTINATION	ARRIVALTIME	BID
13	Lucknow	25-MAR-23 09.30.00.00 AM	13
18	Lucknow	25-MAR-23 11.00.00.00 AM	13

2 rows returned in 0.00 seconds [Download](#)