



PROJECT FLIGHTPASS



In this project, I will be tackling more than 20 challenging SQL questions , many of which are of high difficulty. The project involves working with data related to passengers, flights, and transactions. The three main tables are Transactions , Passenger Details, and Flight Details , with their descriptions provided below.

My name is Priyal Keswani, and through this project, I will be solving complex SQL queries using the data from these tables given below .

TABLES USED WITH COLUMN NAMES

1) transact -

TID , TMode , Amount , Tsuccess

2) pass_details -

PID , pName , Booking_date , Tr_ID, Age , F_No ,
F_rewards

3) flight_details -

FNo , Pil_Name , Journey_Date, Depart_time, arr_time
, source_city , dest_city , crew_members


Q1) Select Average Transaction amount based on Transaction Mode in descending order of average transaction amount.

- ```
SELECT
 AVG(AMOUNT) AS AVG_AMOUNT, TMODE
FROM
 TRANSACTIONS
GROUP BY TMODE
ORDER BY AVG_AMOUNT DESC;
```

| Result Grid |            |       | Filter Rows |  |
|-------------|------------|-------|-------------|--|
|             | AVG_AMOUNT | TMODE |             |  |
| ▶           | 8841.2500  | CC    |             |  |
|             | 7843.3333  | NB    |             |  |
|             | 6509.0000  | DC    |             |  |
|             | 6440.9091  | UPI   |             |  |

**Q2) Select All Transaction mode and Transaction amount along with Passenger Name, Booking\_date of passengers where booking date in on weekends.**

```
SELECT
 T.TMODE,
 T.AMOUNT,
 P.PNAME,
 P.BOOKING_DATE,
 DAYOFWEEK(P.BOOKING_DATE) AS WEEKEND
FROM
 TRANSACT T
 JOIN
 PASS_DETAILS P ON T.TID = P.TR_ID
WHERE
 DAYOFWEEK(P.BOOKING_DATE) IN (1, 7);
```

| Result Grid                                                                                             |       |        |                   |              |         |
|---------------------------------------------------------------------------------------------------------|-------|--------|-------------------|--------------|---------|
| Filter Rows: <input type="text"/>                                                                       |       |        |                   |              |         |
| Export:  Wrap Cell |       |        |                   |              |         |
|                                                                                                         | TMODE | AMOUNT | PNAME             | BOOKING_DATE | WEEKEND |
| ▶                                                                                                       | DC    | 5670   | Pankaj Verma      | 2022-03-20   | 1       |
|                                                                                                         | DC    | 7300   | Anjali Srivastava | 2022-03-20   | 1       |
|                                                                                                         | DC    | 5300   | Anil Pandey       | 2022-03-12   | 7       |
|                                                                                                         | CC DC | 7900   | James Spencer     | 2022-03-19   | 7       |
|                                                                                                         | CC    | 5200   | Satish Kaushik    | 2022-03-06   | 1       |
|                                                                                                         | UPI   | 7000   | Aakriti Shukla    | 2022-03-12   | 7       |
|                                                                                                         | UPI   | 5280   | Vicky Trivedi     | 2022-03-13   | 1       |

Result 18 x



### Q3) Display all passengers details who have travelled multiple times

```
SELECT
 P.*
FROM
 PASS_DETAILS P
 INNER JOIN
 (SELECT
 PNAME, COUNT(PID) AS COUNT_PID
 FROM
 PASS_DETAILS
 GROUP BY PNAME
 HAVING COUNT(PID) > 1) DT ON P.PNAME = DT.PNAME ;
```

| Result Grid                                                |     |              |              |       |     |        |           |
|------------------------------------------------------------|-----|--------------|--------------|-------|-----|--------|-----------|
| Filter Rows: <input type="text"/> Export:  Wrap Cell Conte |     |              |              |       |     |        |           |
|                                                            | PID | PName        | Booking_Date | Tr_ID | Age | F_no   | F_Rewards |
| ▶                                                          | 123 | Pankaj Verma | 2022-03-01   | 78965 | 20  | AI-745 | 0         |
|                                                            | 124 | Vipin Verma  | 2022-03-02   | 78966 | 29  | AI-745 | 2         |
|                                                            | 126 | Harshit Soni | 2022-03-04   | 78968 | 23  | AI-747 | 5         |
|                                                            | 127 | Pankaj Verma | 2022-03-25   | 78969 | 20  | AI-748 | 6         |
|                                                            | 128 | Vipin Verma  | 2022-03-14   | 78970 | 29  | AI-748 | 10        |
|                                                            | 129 | Pankaj Verma | 2022-03-20   | 78971 | 20  | IN-546 | 10        |
|                                                            | 133 | Betty Sharin | 2022-03-08   | 78975 | 25  | IN-548 | 20        |
|                                                            | 137 | Betty Sharin | 2022-03-04   | 78979 | 25  | SJ-325 | 30        |
|                                                            | 138 | Harshit Soni | 2022-03-11   | 78981 | 20  | AI-745 | 10        |

**Q4) Select all the passengers who have earned more Flight rewards than the avg flight rewards earned by passengers whose payment mode is Credit or Debit Card**

```
SELECT
 *
FROM
 PASS_DETAILS
WHERE
 F_REWARDS > (SELECT
 AVG(F_REWARDS)
 FROM
 PASS_DETAILS P
 JOIN
 TRANSACTIONS T ON T.TID = P.TR_ID
 WHERE
 T.TMODE IN ('CC' , 'DC'));
```

Result Grid

Edit:

Export/Import

|   | PID | PName          | Booking_Date | Tr_ID | Age  | F_no   | F_Rewards |
|---|-----|----------------|--------------|-------|------|--------|-----------|
| ▶ | 133 | Betty Sharin   | 2022-03-08   | 78975 | 25   | IN-548 | 20        |
|   | 137 | Betty Sharin   | 2022-03-04   | 78979 | 25   | SJ-325 | 30        |
|   | 138 | Sakshi Ghosh   | 2022-03-18   | 78980 | 70   | SJ-325 | 40        |
|   | 146 | Garima Singh   | 2022-03-22   | 78988 | NULL | SJ-328 | 20        |
|   | 147 | Anusha Raina   | 2022-03-23   | 78989 | 24   | IN-549 | 20        |
|   | 148 | Aditya Gaur    | 2022-03-24   | 78990 | 25   | AI-746 | 30        |
|   | 151 | Andrew Silva   | 2022-03-23   | 78993 | NULL | AI-749 | 18        |
|   | 152 | Ederson Walker | 2022-03-26   | 78994 | 28   | SJ-329 | 50        |

PASS\_DETAILS 24

×

**Q5) Select all the passengers name, flight\_rewards, transaction mode of those passengers whose payment mode is Credit or Debit Card and who have earned more Flight rewards than the avg flight rewards earned by all the passengers**

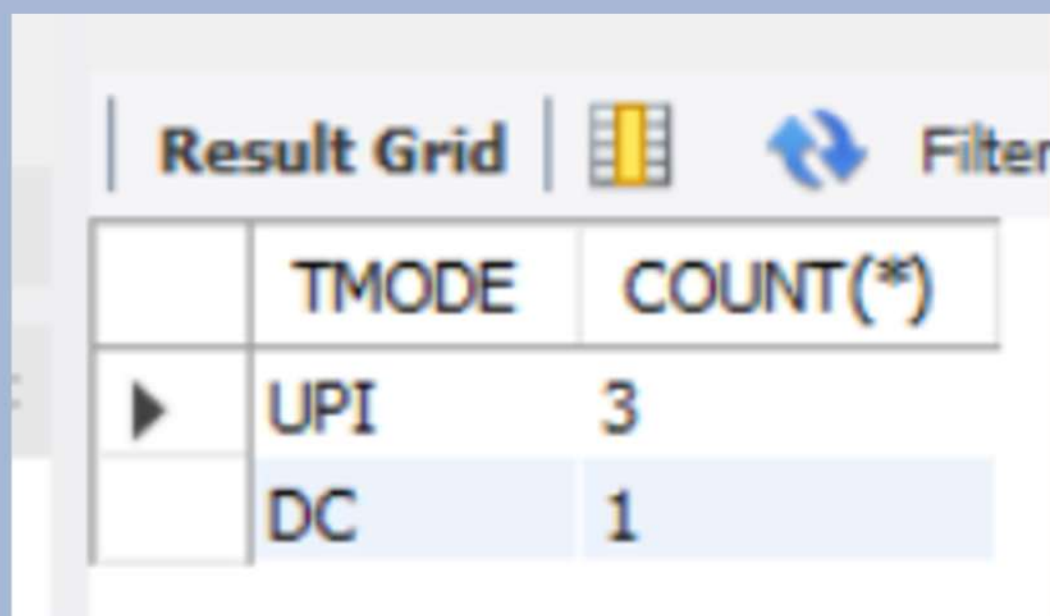
```
SELECT
 P.PNAME, T.TMODE, P.F_REWARDS
FROM
 PASS_DETAILS P
 JOIN
 TRANSACT T ON T.TID = P.TR_ID
WHERE
 P.F_REWARDS > (SELECT
 AVG(F_REWARDS) AS AVG_REWARDS
 FROM
 PASS_DETAILS)
 AND TMODE IN ('CC' , 'DC')
ORDER BY PID ;
```

| Result Grid  |                |       |           |
|--------------|----------------|-------|-----------|
| Filter Rows: |                |       |           |
|              | PNAME          | TMODE | F_REWARDS |
| ▶            | Sakshi Ghosh   | DC    | 40        |
|              | Garima Singh   | DC    | 20        |
|              | Anusha Raina   | CC    | 20        |
|              | Aditya Gaur    | CC    | 30        |
|              | Andrew Silva   | DC    | 18        |
|              | Ederson Walker | CC    | 50        |
|              | Anusha Raina   | DC    | 50        |



## Q6) Display count of failed transactions based on transaction mode

```
SELECT
 TMODE, COUNT(*)
FROM
 TRANSACT
WHERE
 TSUCCESS IS NULL
GROUP BY TMODE;
```



The screenshot shows a 'Result Grid' window with a table containing two rows of data. The first row has a play button icon in the first column, 'UPI' in the second column, and '3' in the third column. The second row has an empty first column, 'DC' in the second column, and '1' in the third column. The table has columns labeled 'TMODE' and 'COUNT(\*)'.

|   | TMODE | COUNT(*) |
|---|-------|----------|
| ▶ | UPI   | 3        |
|   | DC    | 1        |

**Q7) Select All Transaction mode and Transaction amount along with Passenger Name, of passengers those who have made the payment using 'CC' or 'UPI'. Also display 10% cashback and name the column as Cashback that can be redeemed only if payment mode is 'CC' and 0 cashback otherwise**

```
SELECT
 T.TMODE,
 T.AMOUNT,
 P.PNAME,
 CASE
 WHEN T.TMODE = 'CC' THEN 0.1 * T.AMOUNT
 ELSE 0
 END AS CASHBACK
FROM
 PASS_DETAILS P
 JOIN
 TRANSACTIONS T ON T.TID = P.TR_ID
WHERE
 T.TMODE IN ('CC', 'UPI');
```

| Result Grid  |       |        |                  |          |
|--------------|-------|--------|------------------|----------|
| Filter Rows: |       |        |                  |          |
|              | TMODE | AMOUNT | PNAME            | CASHBACK |
| ▶            | UPI   | 8440   | Vipin Verma      | 0        |
|              | CC    | 9730   | Shivang Malhotra | 973.0    |
|              | UPI   | 3460   | Harshit Soni     | 0        |
|              | UPI   | 4535   | Betty Sharin     | 0        |
|              | CC    | 12300  | Betty Anshu      | 1230.0   |
|              | UPI   | 7300   | Anshul Singh     | 0        |
|              | UPI   | 4535   | Vaishu Bhutani   | 0        |
|              | UPI   | 9100   | Amitabh Verma    | 0        |
|              | CC    | 7000   | Shivam           | 700.0    |

Result 46



**Q8) Select pilots name who have been allotted multiple flights.  
Display the names and the count.**

- SELECT**  
    PIL\_NAME **AS** PILOT\_NAME , COUNT(FNO) **AS** COUNT\_FNO  
**FROM**  
    FLIGHT\_DETAILS  
**GROUP BY** PIL\_NAME  
**HAVING** COUNT(FNO) > 1;

| Result Grid |                 |           | Filter Rows: |
|-------------|-----------------|-----------|--------------|
|             | PILOT_NAME      | COUNT_FNO |              |
| ▶           | Anusha Raina    | 2         |              |
|             | Aditya Gaur     | 2         |              |
|             | Vincent Spencer | 3         |              |

**Q9) Display the pilots, source\_cty, dest\_city, journey\_date who flew from either Mumbai or Bangalore but didn't land in Delhi or Chennai**

```
SELECT
 PIL_NAME, SOURCE_CITY, DEST_CITY, JOURNEY_DATE
FROM
 FLIGHT_DETAILS
WHERE
 SOURCE_CITY IN ('DELHI' , 'MUMBAI')
 AND DEST_CITY NOT IN ('DELHI' , 'CHENNAI');
```

| Result Grid                                     |                  |             |           |              |
|-------------------------------------------------|------------------|-------------|-----------|--------------|
| Filter Rows: <input type="text"/>               |                  |             |           |              |
| Export: <input type="button" value="Export"/>   |                  |             |           |              |
| Wrap Cells: <input type="button" value="Wrap"/> |                  |             |           |              |
|                                                 | PIL_NAME         | SOURCE_CITY | DEST_CITY | JOURNEY_DATE |
| ▶                                               | Siddharth Wadhwa | Delhi       | Kolkata   | 2022-04-15   |
|                                                 | Aniruddh Sinha   | Delhi       | Mumbai    | 2022-04-16   |
|                                                 | Siddhanth Arora  | Delhi       | Bangalore | 2022-04-17   |
|                                                 | Vishal Kambley   | Delhi       | Hyderabad | 2022-04-16   |
|                                                 | Aditya Gaur      | Mumbai      | Ahemdabad | 2022-04-17   |
|                                                 | Vincent Spencer  | Mumbai      | Kolkata   | 2022-04-21   |



Q10) Display the count of most frequent destination based on Destination city and airlines company (Indigo, Air India and SpiceJet) where the flight arrived more than once





```
SELECT DEST_CITY ,CASE
 WHEN FNO LIKE 'AI%' THEN 'AIR_INDIA'
 WHEN FNO LIKE 'SJ%' THEN 'SPICEJET'
 ELSE 'INDIGO'
END AS AIRLINES , COUNT(DEST_CITY) AS COUNT
FROM FLIGHT_DETAILS
GROUP BY DEST_CITY , AIRLINES
HAVING COUNT >1
ORDER BY COUNT DESC ;
```

| Result Grid |           |          |       |
|-------------|-----------|----------|-------|
|             | DEST_CITY | AIRLINES | COUNT |
| ▶           | Delhi     | INDIGO   | 3     |
|             | Bangalore | SPICEJET | 2     |
|             | Kolkata   | SPICEJET | 2     |

**Q11) Select PID,PName,Transaction\_Mode, transaction\_amount, Booking\_Date, Age, Flight\_No, Journey date, depart time, arrival time, source city and dest city where flight departure time is on or after 6pm**

```
SELECT
 P.PID,
 P.PNAME,
 T.TMODE,
 T.AMOUNT,
 P.BOOKING_DATE,
 P.AGE,
 F.FNO,
 F.JOURNEY_DATE,
 F.DEPART_TIME,
 F.ARR_TIME,
 F.SOURCE_CITY
FROM
 PASS_DETAILS P
 JOIN
 TRANSACT T ON P.TR_ID = T.TID
 JOIN
 FLIGHT_DETAILS F ON F.FNO = P.F_NO
WHERE
 HOUR(DEPART_TIME) > 18;
```



| Result Grid     Filter Rows: <input type="text"/>   Export:    Wrap Cell Content:  |     |                   |       |        |              |      |        |              |             |          |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------|-------|--------|--------------|------|--------|--------------|-------------|----------|-------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                          | PID | PNAME             | TMODE | AMOUNT | BOOKING_DATE | AGE  | FNO    | JOURNEY_DATE | DEPART_TIME | ARR_TIME | SOURCE_CITY |
| ▶                                                                                                                                                                                                                                                                                                                                                                                                                        | 131 | Utkarsh Arora     | DC    | 4535   | 2022-03-29   | 30   | IN-547 | 2022-04-17   | 20:15:00    | 22:30:00 | Mumbai      |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | 132 | Anjali Srivastava | DC    | 7300   | 2022-03-20   | 27   | IN-547 | 2022-04-17   | 20:15:00    | 22:30:00 | Mumbai      |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | 139 | Harshit Soni      | DC    | 5200   | 2022-03-11   | NULL | SJ-326 | 2022-04-22   | 19:30:00    | 21:30:00 | Kolkata     |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | 140 | Anil Pandey       | DC    | 5300   | 2022-03-12   | 56   | SJ-326 | 2022-04-22   | 19:30:00    | 21:30:00 | Kolkata     |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | 141 | Amitabh Verma     | UPI   | 9100   | 2022-03-17   | 70   | SJ-330 | 2022-04-15   | 23:30:00    | 01:45:00 | Bangalore   |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | 152 | Ederson Walker    | CC    | 8000   | 2022-03-26   | 28   | SJ-329 | 2022-04-16   | 23:15:00    | 03:00:00 | Chennai     |

**Q12) Select passenger id, passenger names,depart time,arrival time, transaction mode, time diff in minutes(including hours time) between arr\_time and dest\_time for passengers where Transcation mode is 'NB' or 'CC'**


```
SELECT
 P.PID,
 P.PNAME,
 F.DEPART_TIME,
 F.ARR_TIME,
 T.TMODE,
 HOUR(TIMEDIFF(F.DEPART_TIME, F.ARR_TIME)) * 60 +
 MINUTE(TIMEDIFF(F.DEPART_TIME, F.ARR_TIME)) +
 SECOND((TIMEDIFF(F.DEPART_TIME, F.ARR_TIME) / 60)) TIME_DIFF_IN_MINTUES
FROM
 PASS_DETAILS P
 JOIN
 TRANSACT T ON P.TR_ID = T.TID
 JOIN
 FLIGHT_DETAILS F ON F.FNO = P.F_NO
WHERE
 TMODE IN ('NB' , 'CC');
```



| Result Grid |     |                   |             |          |                    |                      |
|-------------|-----|-------------------|-------------|----------|--------------------|----------------------|
|             |     | Filter Rows:      | Export:     |          | Wrap Cell Content: |                      |
|             | PID | PNAME             | DEPART_TIME | ARR_TIME | TMODE              | TIME_DIFF_IN_MINTUES |
| ▶           | 123 | Pankaj Verma      | 09:45:00    | 11:30:00 | NB                 | 146                  |
|             | 125 | Shivang Malhotra  | 13:30:00    | 15:30:00 | CC                 | 153                  |
|             | 127 | Pankaj Verma      | 15:45:00    | 17:30:00 | NB                 | 146                  |
|             | 128 | Vipin Verma       | 15:45:00    | 17:30:00 | NB                 | 146                  |
|             | 134 | Betty Anshu       | 11:30:00    | 14:45:00 | CC                 | 220                  |
|             | 137 | Betty Sharin      | 09:45:00    | 11:30:00 | NB                 | 146                  |
|             | 142 | James Spencer     | 09:45:00    | 11:30:00 | CC                 | 146                  |
|             | 143 | Satish Kaushik    | 09:45:00    | 11:30:00 | CC                 | 146                  |
|             | 147 | Anusha Raina      | 17:15:00    | 18:45:00 | CC                 | 106                  |
|             | 148 | Aditya Gaur       | 10:15:00    | 11:45:00 | CC                 | 106                  |
|             | 152 | Ederson Walker    | 23:15:00    | 03:00:00 | CC                 | 1273                 |
|             | 154 | Aditya Srivastava | 17:15:00    | 18:45:00 | CC                 | 106                  |

### Q13) Select Count of passengers per flight no

```
SELECT
 COUNT(P.PID), F.FNO
FROM
 PASS_DETAILS P
 JOIN
 TRANSACT T ON P.TR_ID = T.TID
 JOIN
 FLIGHT_DETAILS F ON F.FNO = P.F_NO
GROUP BY F.FNO;
```

| Result Grid |              |        |  | Filter Rows |
|-------------|--------------|--------|---------------------------------------------------------------------------------------|-------------|
|             | COUNT(P.PID) | FNO    |                                                                                       |             |
|             | 2            | AI-746 |                                                                                       |             |
|             | 2            | IN-545 |                                                                                       |             |
|             | 1            | AI-749 |                                                                                       |             |
|             | 1            | SJ-329 |                                                                                       |             |
|             | 2            | AI-750 |                                                                                       |             |

**Q14) Display count of passengers based on airlines(Indigo, SpiceJet, Air India) in descending order of count values**

```
SELECT
 COUNT(P.PID) AS COUNTPASS, LEFT(F.FNO, 2) AS AIRLINES
FROM
 PASS_DETAILS P
 JOIN
 TRANSACT T ON P.TR_ID = T.TID
 JOIN
 FLIGHT_DETAILS F ON F.FNO = P.F_NO
GROUP BY AIRLINES
ORDER BY COUNTPASS DESC;
```

| Result Grid |           |          | Filter Rows: |
|-------------|-----------|----------|--------------|
|             | COUNTPASS | AIRLINES |              |
| ▶           | 11        | AI       |              |
|             | 12        | IN       |              |
|             | 13        | SJ       |              |



**Q15) Select all pilots details (name,passengerID) who are travelling as passengers. Also display their flight\_number,transaction amount and transaction mode**

**SELECT**

P.PID, P.PNAME, P.F\_NO, T.TMODE, T.AMOUNT

**FROM**

PASS\_DETAILS P,

FLIGHT\_DETAILS F,

TRANSACT T

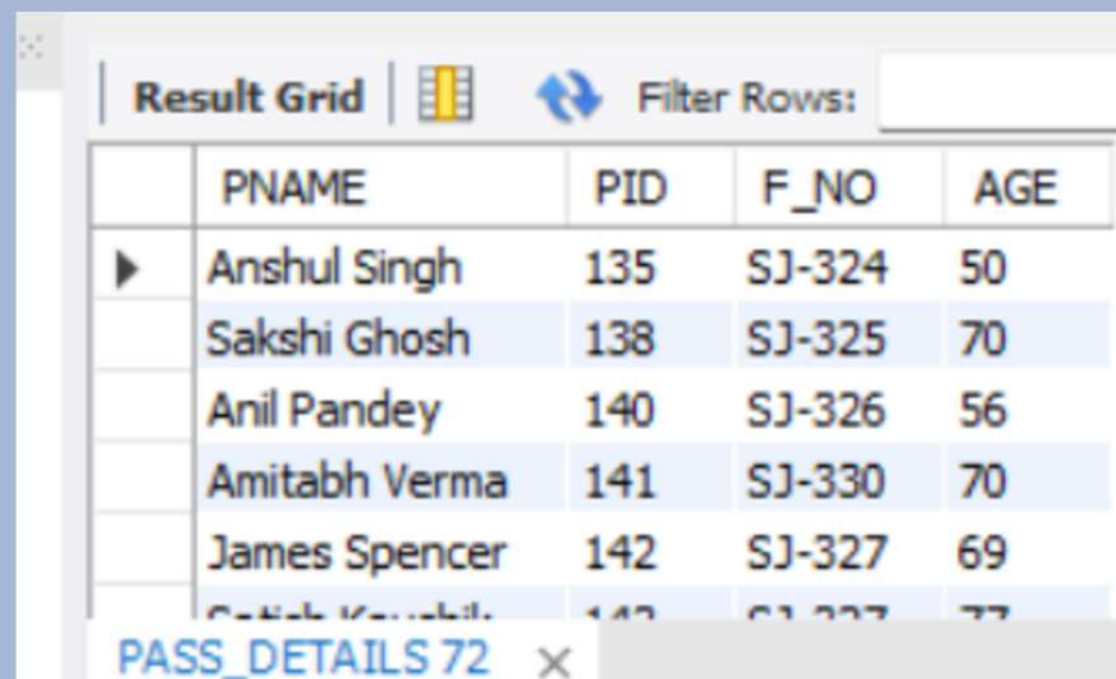
**WHERE**

P.PNAME = F.PIL\_NAME AND T.TID = P.TR\_ID;

| Result Grid |     |               |        |       |        | Filter Rows: | Export |
|-------------|-----|---------------|--------|-------|--------|--------------|--------|
|             | PID | PNAME         | F_NO   | TMODE | AMOUNT |              |        |
| ▶           | 147 | Anusha Raina  | IN-549 | CC    | 10500  |              |        |
|             | 147 | Anusha Raina  | IN-549 | CC    | 10500  |              |        |
|             | 148 | Aditya Gaur   | AI-746 | CC    | 9600   |              |        |
|             | 148 | Aditya Gaur   | AI-746 | CC    | 9600   |              |        |
|             | 149 | Harvey Becker | IN-545 | DC    | 6600   |              |        |

Q16) Display the passenger names, their IDs, FNo,age whose age is greater than avg age of all passengers whose airlines is either Air India or Spice Jet (Using sub query)

```
• SELECT
 P.PNAME, P.PID, P.F_NO, P.AGE
FROM
 PASS_DETAILS P
WHERE
 P.AGE > (SELECT
 AVG(AGE)
 FROM
 PASS_DETAILS
 WHERE
 F_NO LIKE 'AI%' OR F_NO LIKE 'SJ%');
```



The screenshot shows a database query result grid with the following data:

|   | PNAME          | PID | F_NO   | AGE |
|---|----------------|-----|--------|-----|
| ▶ | Anshul Singh   | 135 | SJ-324 | 50  |
|   | Sakshi Ghosh   | 138 | SJ-325 | 70  |
|   | Anil Pandey    | 140 | SJ-326 | 56  |
|   | Amitabh Verma  | 141 | SJ-330 | 70  |
|   | James Spencer  | 142 | SJ-327 | 69  |
|   | Geetha Koushik | 143 | SJ-328 | 77  |

At the bottom of the grid, the text "PASS\_DETAILS 72" is visible next to a close button (X).

Q17) Select all passengers names, PID, flight\_number, transaction\_success details who have failed transactions

```
SELECT
 P.PNAME, P.PID, P.F_NO , T.TSUCCESS
FROM
 PASS_DETAILS P
 JOIN
 TRANSACTIONS T ON P.TR_ID = T.TID
WHERE
 T.TSUCCESS = 1;
```

| Result Grid  |                  |     |        |          |
|--------------|------------------|-----|--------|----------|
| Filter Rows: |                  |     |        |          |
|              | PNAME            | PID | F_NO   | TSUCCESS |
| ▶            | Pankaj Verma     | 123 | AI-745 | 1        |
|              | Vipin Verma      | 124 | AI-745 | 1        |
|              | Shivang Malhotra | 125 | AI-747 | 1        |
|              | Pankaj Verma     | 127 | AI-748 | 1        |
|              | Vipin Verma      | 128 | AI-748 | 1        |
|              | Aman Kumar       | 129 | AI-746 | 1        |

Result 4 ×



Q18) Allot 15% cashback to the passengers who are senior citizens(people aged 55 and above)

on their transaction amount. Display PID, passenger names,Flight number, age, and transaction amount renamed as DiscountedAmt

```
SELECT
 P.AGE,
 P.PID,
 P.PNAME,
 P.F_NO,
 T.AMOUNT,
 CASE
 WHEN P.AGE > 55 THEN .85 * T.AMOUNT
 ELSE T.AMOUNT
 END AS DISCOUNT
FROM
 PASS_DETAILS P
 JOIN
 TRANSACTIONS T ON P.TR_ID = T.TID
```

| Result Grid |      |              |                  |         |        |          |
|-------------|------|--------------|------------------|---------|--------|----------|
|             |      | Filter Rows: |                  | Export: |        | Wrap C   |
|             | AGE  | PID          | PNAME            | F_NO    | AMOUNT | DISCOUNT |
| ▶           | 20   | 123          | Pankaj Verma     | AI-745  | 5670   | 5670     |
|             | 29   | 124          | Vipin Verma      | AI-745  | 8440   | 8440     |
|             | NULL | 125          | Shivang Malhotra | AI-747  | 9730   | 9730     |
|             | 23   | 126          | Harshit Soni     | AI-747  | 3460   | 3460     |
|             | 20   | 127          | Pankaj Verma     | AI-748  | 5450   | 5450     |
|             | 20   | 128          | Vipin Verma      | AI-748  | 3640   | 3640     |

Result 2 x

Q19) Select transaction mode wise maximum age from tables ordered in ascending order of maximum age. Use sub query

```
SELECT
 TMODE, MAX(AGE) AS MAX_AGE
FROM
 (SELECT
 T.TMODE, P.AGE
 FROM
 PASS_DETAILS P
 JOIN TRANSACT T ON P.TR_ID = T.TID) DT
GROUP BY TMODE
ORDER BY MAX_AGE;
```

| Result Grid |       |         | Filter |
|-------------|-------|---------|--------|
|             | TMODE | MAX_AGE |        |
| ▶           | NB    | 35      |        |
|             | DC    | 70      |        |
|             | UPI   | 71      |        |
|             | CC    | 77      |        |

**Q20) Find PID,passenger Names, Booking\_date, Tr\_ID, Age in each airlines(Indigo,SpiceJet,Air India) whose age is more than avg age of passengers travelling in that airlines.**

**SELECT**

P.PID,  
P.PNAME,  
P.BOOKING\_DATE,  
P.TR\_ID,  
**LEFT**(P.F\_NO, 2),  
P.AGE

**FROM**

PASS\_DETAILS P

**WHERE**

P.AGE > (**SELECT**  
    **AVG**(P1.AGE)  
    **FROM**  
        PASS\_DETAILS P1  
    **WHERE**  
        **LEFT**(P1.F\_NO, 2) = **LEFT**(P.F\_NO, 2)  
    **GROUP BY LEFT**(P1.F\_NO, 2)  
    **ORDER BY LEFT**(P.F\_NO, 2));



| Result Grid                       |     |               |              |       |                 |     |
|-----------------------------------|-----|---------------|--------------|-------|-----------------|-----|
| Filter Rows: <input type="text"/> |     |               |              |       |                 |     |
| Export: <input type="text"/>      |     |               |              |       |                 |     |
| Wrap Cell Content                 |     |               |              |       |                 |     |
|                                   | PID | PNAME         | BOOKING_DATE | TR_ID | LEFT(P.F_NO, 2) | AGE |
| ▶                                 | 124 | Vipin Verma   | 2022-03-02   | 78966 | AI              | 29  |
|                                   | 128 | Vipin Verma   | 2022-03-14   | 78970 | AI              | 29  |
|                                   | 131 | Utkarsh Arora | 2022-03-29   | 78973 | IN              | 30  |
|                                   | 138 | Sakshi Ghosh  | 2022-03-18   | 78980 | SJ              | 70  |
|                                   | 141 | Amitabh Verma | 2022-03-17   | 78983 | SJ              | 70  |
|                                   | 142 | James Spencer | 2022-03-19   | 78984 | SJ              | 69  |

Result 8 x

# Q21) Display all transaction details for the passengers where the flight duration is not more than 2.30hrs

```
• SELECT
 F.FNO,
 T.*,
 F.DEPART_TIME,
 F.ARR_TIME,
 TIMEDIFF(F.DEPART_TIME, F.ARR_TIME) AS TIME_GAP
FROM
 FLIGHT_DETAILS F
 JOIN
 PASS_DETAILS P ON P.F_NO = F.FNO
 JOIN
 TRANSACT T ON T.TID = P.TR_ID
HAVING TIME_GAP <= '02:30:00';
```

Result Grid Filter Rows:  | Export: | Wrap Cell Content:

|   | FNO    | TID   | TMode | Amount | TSuccess | DEPART_TIME | ARR_TIME | TIME_GAP  |
|---|--------|-------|-------|--------|----------|-------------|----------|-----------|
| ▶ | AI-745 | 78965 | NB    | 5670   | 1        | 09:45:00    | 11:30:00 | -01:45:00 |
|   | AI-745 | 78966 | UPI   | 8440   | 1        | 09:45:00    | 11:30:00 | -01:45:00 |
|   | AI-747 | 78967 | CC    | 9730   | 1        | 13:30:00    | 15:30:00 | -02:00:00 |
|   | AI-747 | 78968 | UPI   | 3460   | 0        | 13:30:00    | 15:30:00 | -02:00:00 |
|   | AI-748 | 78969 | NB    | 5450   | 1        | 15:45:00    | 17:30:00 | -01:45:00 |
|   | AI-748 | 78970 | NB    | 3640   | 1        | 15:45:00    | 17:30:00 | -01:45:00 |
|   | IN-546 | 78971 | DC    | 5670   | 0        | 15:30:00    | 18:45:00 | -03:15:00 |

Result 10



Thank  
you!