DATABASE MANAGEMENT SYSTEMS CSE2004

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CREATING TABLES:

7 email varchar(30), 8 address varchar(50), 9 age number(3), 10 id_proof1 varchar(20), 11 id_proof2 varchar(20),

Table created.

SQL>

```
Run SQL Command Line
SQL> create table tour1(
 2 tour_id number(10) primary key,
3 tour_name varchar(30),
4 place_from varchar(50),
  5 place_to varchar(50), 6 places_to_be varchar(50),
    duration number(3),
     fare number(10,2),
     description varchar(30));
Table created.
SQL>
 Run SQL Command Line
SQL> create table cust_login1(
  2 user_name varchar(30) primary key,
  3 password varchar(30) not null,
  4 login_date date default sysdate,
  5 login_time timestamp default systimestamp,
  6 check(lengthb(password)>8));
 Table created.
SQL>
 Run SQL Command Line
 SQL> create table cust_details1(
  2 cust_id number(5) primary key,
  3 fname varchar(20),
  4 mname varchar(20),
  5 lname varchar(20),
  6 mobile_no number(12),
```

12 foreign key (email) references cust_login1(user_name));

```
Run SQL Command Line
SQL> create table tour_booking1(
 2 booking_id number(12) primary key,
3 tour_id number(12),
 4 cust_id number(12),
  5 from_date date,
  6 to_date date,
 7 no_of_persons number(10),
8 booking_amount number(10,2),
9 foreign key (tour_id) references tour1(tour_id),
 10 foreign key (cust_id) references cust_details1(cust_id));
Table created.
SQL>
 Run SQL Command Line
SQL> create table cab_details1(
  2 cab_id number(10) primary key,
3 owner_name varchar(30),
4 license_details varchar(30),
5 owner_contact_number number(12),
   6 cab_type varchar(50));
Table created.
SQL> _
Run SQL Command Line
SQL> create table driver_details1(
 2 driver_id number(12) primary key,
 3 name varchar(20),
 4 address varchar(25),
 5 contact_number number(12),
```

7 foreign key (cab_id) references cab_details1(cab_id));

6 cab_id number(12),

Table created.

SQL> _

```
SQL> create table cab_booking1(
2 cab_booking_id number(12) primary key,
3 cab_id number(12),
4 cab_from varchar(50),
5 total_amount number(12,2),
6 tour_booking_id number(12),
7 foreign key (cab_id) references cab_details1(cab_id),
8 foreign key (tour_booking_id) references tour_booking1(booking_id));

Table created.

SQL> _
```

Run SQL Command Line

```
SQL> create table flight_booking1(
2 flight_booking_id number(12) primary key,
3 booking_date date,
4 cust_id number(5),
5 flight_number number(12),
6 flight_from varchar(50),
7 flight_to varchar(50),
8 airline_name varchar(20),
9 journey_date date,
10 arrival_time timestamp,
11 departure_time timestamp,
12 no_of_tickets number(4),
13 fare number(10),
14 amount number(10,2),
15 tour_booking_id number(10),
16 foreign key (cust_id) references cust_details1(cust_id),
17 foreign key (tour_booking_id) references tour_booking1(booking_id));

Fable created.
```

Run SQL Command Line

QUESTION 1:

1. Find the customers whose date of journey is one month from today.

```
Run SQL Command Line

SQL> select cust_id from tour_booking1 where from_date=trunc(sysdate)+31;

no rows selected

SQL> _
```

2. Print the Customers" name in upper case. (Hint: customer name has three sections, first, middle and last name.)

```
Run SQL Command Line

SQL> select
2 upper(fname) as First_name,
3 upper(mname) as Middle_name,
4 upper(lname) as Last_name
5 from cust_details1;

no rows selected

SQL> _
```

3. Print the fare of tour with left padding character.

```
SQL> select lpad(fare,10,'$') from tour1;

LPAD(FARE,10,'$')
------
$$$$$80000
$$$$$75000
$$$$$90000
$$$$$40000
$$$$$50000
```

4. Display the fare details of all tour, if any value is ZERO, print as NULL value.

```
SQL> select nvl(fare,0) from tour1;

NVL(FARE,0)
------
80000
75000
90000
40000
50000
```

5. Display the booking id and tour id, if tour id is null, print 'not conformed'.

```
SQL> select booking_id, nvl(to_char(tour_id),'Not Conformed') as tour_id from booking1;

BOOKING_ID TOUR_ID

1 1
2 2
3 3
4 4
5 5
```

6. Print the journey date in the format of '27th August 2020'.

```
SQL> select to_char (journey_date, 'DDth MONTH YYYY') as journey_date from flight_booking1;

JOURNEY_DATE

20TH OCTOBER 2020
25TH OCTOBER 2020
25TH NOVEMBER 2020
25TH NOVEMBER 2020
25TH NOVEMBER 2020
01ST JANUARY 2021
```

7. Find the maximum fare from the tour.

```
SQL> select max(fare) as max_fare from tour1;

MAX_FARE

90000
```

8. Find the average age of customer, younger and elder customer details.

9. Find the maximum length of tour name available in the database.

```
SQL> select max(length(tour_name)) as maxlength from tour1;

MAXLENGTH

9
```

10. Print the fare amount of the tour as rounded value after inclusion of tax.

11. 13. Display the arrival time, depart time in the format HH:MI (24 hours and minutes).

12. 14. Find the all the customer details whose name is exactly 5 characters long.

```
Run SQL Command Line

SQL> select * from cust_details1 where length(fname)=5;

no rows selected

SQL> _
```

QUESTION 2: Use Nested Query(in Operators)

1. Display all the customer details who has logged in yesterday or any given date.

```
Run SQL Command Line

SQL> select * from cust_details1 where email in (select user_name from cust_login1 where trunc(login_date)=trunc(sysdate));

no rows selected

SQL> •
```

2. Add cab booking date in cab booking table and find the driver(s) contact details that has booking on given date or today.

```
SQL> alter table Cab_booking
 2 add cab_book_date timestamp;
Table altered.
SQL> desc Cab_booking;
                                             Null?
Name
                                                       Type
CAB_BOOK_ID
                                             NOT NULL NUMBER(10)
                                                       NUMBER(10)
NUMBER(10)
CAB ID
TOUR_BOOKING_ID
CAB_FROM
                                             NOT NULL VARCHAR2(20)
CAB_TO
                                              NOT NULL VARCHAR2(20)
                                              NOT NULL NUMBER(10)
TOTAL_AMOUNT
CAB_BOOK_DATE
                                                       TIMESTAMP(6)
```

3. Find the Passenger name who has booked the ticket and their journey starts from 'Chennai'.

```
SQL> select first_name from Customer_details
2 where customer_id in(select customer_id from Tour_booking
3 where tour_id in(select tour_id from Tour where place_from='chennai'));
```

Use Join Query:

1. Find the cab and its driver details.

```
Run SQL Command Line

SQL> select * from cab_details1 inner join driver_details1 on cab_details1.cab_id=driver_details1.cab_id;

no rows selected

SQL> _
```

2. Display all those customer details who has booked Hotel "Hotel Apple Suites" or any given name.

```
Run SQL Command Line

SQL> select * from cust_details1 where cust_id in(select cust_id from tour_booking1 inner join hotel_booking1 on tour_booking1.booking_id=hotel_booking1.tour_booking_id where hotel_name='Apple Suites');

no rows selected

SQL>
```

3. Find the Passenger name and flight name who have booked the flight that starts from 'Chennai'.

```
SQL> select Customer_details.first_name, Flight_booking.airline
2 from Customer_details
3 left join Flight_booking
4 on Customer_details.customer_id=Flight_booking.customer_id
5 where Flight_booking.flight_from='CHENNAI';

FIRST_NAME AIRLINE

gokul INDIGO
tara AIR EUROPA
```

4. Find the list of all customers who has booked the same destination for given date.

```
SQL> select firstname from cust_details1 join flight_booking1 on cust_details1.cust_id=flight_booking1.
cust_id where journey_date='01-OCT-2020' group by flight_to, firstname;
no rows selected
SQL>
```

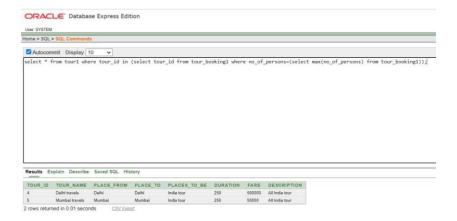
5. Display the cab driver details who has attended the customer "XYZ".

Run SQL Command Line

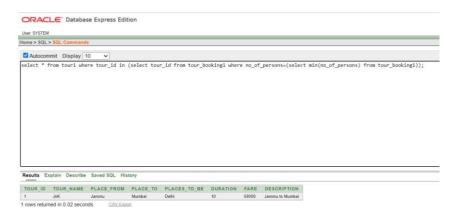
```
DRIVER_ID NAME
ADDRESS
                                                CONTACT_NUMBER
                                                                   CAB_ID
CAB BOOKING ID
                 CAB ID CAB FROM
                                                TOTAL_AMOUNT TOUR_BOOKING_ID
CAB_BOOK_ BOOKING_ID TOUR_ID CUST_ID FROM_DATE TO_DATE NO_OF_PERSONS
BOOKING_AMOUNT
               CUST_ID FIRSTNAME
                                             MIDDLENAME
LASTNAME
                       MOBILE EMAIL
ADDRESS
                    IDPROOF2
        1 VRASHABH
DRIVER_ID NAME
ADDRESS
                                                CONTACT NUMBER
                                                                  CAB_ID
CAB_BOOKING_ID
                 CAB_ID CAB_FROM
CAB TO BE
                                                TOTAL_AMOUNT TOUR_BOOKING_ID
CAB_BOOK_ BOOKING_ID TOUR_ID CUST_ID FROM_DATE TO_DATE NO_OF_PERSONS
BOOKING_AMOUNT CUST_ID FIRSTNAME
                                             MIDDLENAME
                       MOBILE EMAIL
ADDRESS
IDPROOF1
                    IDPROOF2
INDORE
                                                         12345
DRIVER ID NAME
ADDRESS
                                                CONTACT_NUMBER CAB_ID
```

QUESTION 3 - Complex queries(use groupby/groupby having/join/nested)

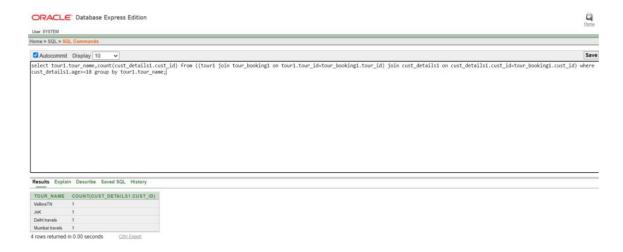
1 List the tour details for which the maximum numbers of peoples have booked.



2 List the tour details for which the minimum numbers of peoples have booked.



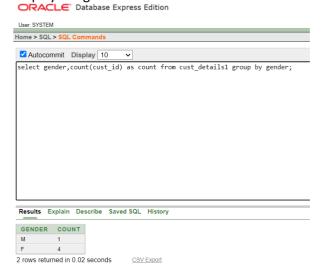
3. Count the total number of senior citizen for every tour name.



4. Find the average age of the customer for every tour name.



5. Display the gender wise count of customers.



6. Count the number of drive given by the driver for a particular tour

