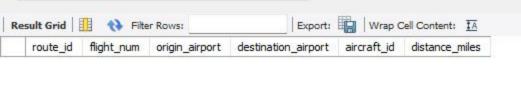


```
    /* 2. Write a query to create route details table using suitable data types for the fields,

   such as route id, flight num, origin airport, destination airport, aircraft id, and distance miles.
  Implement the check constraint for the flight number and unique constraint for the route id fields.
   Also, make sure that the distance miles field is greater than 0. */
create table route details (
      route id int, foreign key (route id) references routes(route id).
      flight num int check (flight num > 1100),
      origin airport varchar(5),
      destination airport varchar(5),
      aircraft id varchar(10),
      distance miles int check (distance miles > 0),
      constraint unique route id unique (route id)
```



```
/* 3. Write a query to display all the passengers (customers)
 41
         who have traveled in routes 01 to 25. Take data from the passengers on flights table. */
 42
 43
 44
         select p.customer id, p.route id, first name, last name
         from passengers on flights p
 45
 46
         inner join customer c
 47
         on p.customer id = c.customer id
         group by p.customer id, p.route id, first name, last name
 48
 49
         having p.route id between 1 and 25
 50
           -- 4. number of passengers and total revenue in business class
 51
Result Grid
               Filter Rows:
                                              Export: Wrap Cell Content: TA
   customer id
               route id
                        first_name
                                   last_name
   2
               4
                        Steve
                                   Ryan
               9
   1
                        Julie
                                   Sam
   5
               12
                                   Kim
                        Aaron
   5
               18
                                   Kim
                        Aaron
               5
                        Cathenna
                                   Emily
   4
   7
               20
                        Anderson
                                   Stewart
               22
   5
                        Aaron
                                   Kim
   4
               4
                        Cathenna
                                   Emily
               5
                        Roger
                                   Walson
   11
   17
               13
                        Catherine
                                   Shad
   9
               15
                                   Travis
                        Leo
                                   Walson
   11
               4
                        Roger
                        Melvin
   10
               10
                                   Tracy
                        Linda
                                   William
   15
               14
   13
                        Solomon
                                   Walter
               13
   22
               22
                        Pheny
                                   Eri
   24
                        Calvin
                                   Willis
               14
Result 1 ×
```

```
51
        /* 4. Write a query to identify the number of passengers and total revenue
         in business class from the ticket details table. */
 52
53
        select class id as Class,
 54
 55
                 count(*) as "Number of passengers",
 56
                 concat("$" ,sum(Price per ticket * no of tickets)) as "Total revenue"
 57
         from ticket details t
 58
         where class id = 'Business'
 59
         group by class id
 60
        -- 5. display the full name of the customer
 61
Result Grid
                                          Export: Wrap Cell Content: TA
              Filter Rows:
           Number of
                              Total
   Class
           passengers
                              revenue
           13
                              $6034
  Business
```

6	00							
6	61							
6	62 by extracting the first name and last name from the customer table. */ 63 64 select customer id							
6								
64 select customer_id, 65 concat(first_name,' ', last_name) as "Full Name",								
6	55	concat(fir	st_name, ,	last_name	e) as "Full Name",			
6	56	date_of_bi	rth,					
6	57	gender						
6	68 from customer							
-	0.000							
Re	sult Grid	Filter Rows:		Export:	Wrap Cell Content: 1A			
	customer_id	Full Name	date_of_birth	gender				
>	1	Julie Sam	12-01-1989	F				
572	2	Steve Ryan	03-04-1983	M				
	3	Morris Lois	09-12-1993	M				
	4	Cathenna Emily	14-09-1977	F				
	5	Aaron Kim	18-02-1991	M				
	6	Alexander Scot	12-02-1985	M				
	7	Anderson Stewart	11-01-1992	M				
	8	Floyd Ted	21-02-1993	M				
	9	Leo Travis	22-03-1994	M				
	10	Melvin Tracy	23-04-1995	M				
	11	Roger Walson	24-05-1996	M				
	12	Shirley Wally	25-06-1997	F				
	13	Solomon Walter	26-07-1998	M				
	14	Carol Vernon	27-08-1999	F				
	15	Linda William	28-09-1986	F				
	16	Chirstine Willis	06-10-1987	F				
	17	Catherine Shad	09-11-1988	F				

```
— /* 6. Write a query to extract the customers who have registered and booked a ticket.

 70
         Use data from the customer and ticket details tables. */
 71
 72
 73
          select t.customer id,
                    concat(first name, ' ', last name) as "Full Name",
 74
 75
                    p date,
 76
                    class id,
 77
                    brand
 78
          from customer c
          inner join ticket details t
 79
 80
          on c.customer id = t.customer id
          where no of tickets = 1
 81
          group by t.customer id, p date, class id, brand
 82
 23
                                                  Export:
Result Grid
                 Filter Rows:
                                                              Wrap Cell Content: IA
                                   p date
                                                class id
                 Full Name
   customer id
                                                               brand
   27
                Cherly Vernon
                                   26-12-2018
                                               Economy
                                                              Emirates
   22
                Pheny Eri
                                   02-02-2020
                                               Economy Plus
                                                              Jet Airways
                                   03-03-2020
   21
                Chirsty Josh
                                                              British Airways
                                                Business
   4
                Cathenna Emily
                                   04-04-2020
                                               First Class
                                                              Emirates
   5
                Aaron Kim
                                   05-05-2020
                                               Economy
                                                              Jet Airways
   7
                Anderson Stewart
                                                              Emirates
                                   07-07-2020
                                               Business
   8
                Floyd Ted
                                   08-08-2020
                                               Economy Plus
                                                              Qatar Airways
   9
                Leo Travis
                                   09-09-2020
                                               First Class
                                                              Emirates
   10
                Melvin Tracy
                                   10-10-2020
                                               Economy
                                                              Qatar Airways
                Roger Walson
                                                              Emirates
   11
                                   11-11-2020
                                               Business
   19
                Joyce Paul
                                   12-12-2020
                                               Economy Plus
                                                              British Airways
   13
                Solomon Walter
                                   01-01-2019
                                               First Class
                                                              Qatar Airways
   14
                Carol Vernon
                                   02-02-2019
                                               Economy
                                                              Jet Airways
   25
                Moss Morris
                                   03-03-2019
                                                              Emirates
                                               Business
   16
                Chirstine Willis
                                               First Class
                                                              British Airways
                                   04-04-2019
   17
                Catherine Shad
                                   03-05-2019
                                               Economy Plus
                                                              Qatar Airways
   18
                Gloria Richie
                                   06-06-2019
                                               Economy
                                                              Emirates
   24
                Calvin Willis
                                   07-07-2019
                                               Business
                                                              Qatar Airways
   20
                Sara Oliver
                                               First Class
                                                              British Airways
                                   09-08-2019
```

```
84
      /* 7. Write a query to identify the customer's first name and last name based
 85
         on their customer ID and brand (Emirates) from the ticket details table. */
 86
 87
         select t.customer id,
 88
                  first name,
 89
                  last name,
 90
                   brand
         from customer c
 91
 92
         inner join ticket details t
         on c.customer id = t.customer id
 93
 94
         where no of tickets = 1 and brand = 'Emirates'
 95
         group by t.customer id, first name, last name, brand
 96
                                              Export: Wrap Cell Content: IA
Result Grid
               Filter Rows:
   customer id
               first name
                          last name
                                     brand
  27
               Cherly
                          Vernon
                                     Emirates
                                     Emirates
  4
               Cathenna
                          Emily
  7
               Anderson
                          Stewart
                                     Emirates
  9
               Leo
                          Travis
                                     Emirates
                          Walson
  11
               Roger
                                     Emirates
  25
               Moss
                          Morris
                                     Emirates
  18
                          Richie
               Gloria
                                     Emirates
  14
               Carol
                          Vernon
                                     Emirates
  19
               Joyce
                          Paul
                                     Emirates
  5
               Aaron
                          Kim
                                     Emirates
  2
               Steve
                          Ryan
                                     Emirates
  31
               James
                          Robert
                                     Emirates
  49
               Russell
                          Peter
                                     Emirates
  44
              Bily
                          Brian
                                     Emirates
```

```
/* 8. Write a query to identify the customers who have traveled by Economy Plus class
 97
         using Group By and Having clause on the passengers_on_flights table. */
 98
 99
         select p.customer id,
100
                 concat(first name, ' ', last name) as "Full Name",
101
102
                 travel date,
                 class id
103
104
         from customer c
         inner join passengers on flights p
105
         on c.customer id = p.customer id
106
         group by p.customer id, travel date, class id
107
         having class id = 'Economy Plus'
108
100
Result Grid
              Filter Rows:
                                          Export: Wrap Cell Content: TA
   customer_id
              Full Name
                            travel_date
                                       class id
Þ
```

1	Julie Sam	26-12-2019	Economy Plus
8	Floyd Ted	09-08-2020	Economy Plus
11	Roger Walson	02-08-2018	Economy Plus
17	Catherine Shad	03-06-2019	Economy Plus
19	Joyce Paul	13-01-2021	Economy Plus
19	Joyce Paul	17-12-2020	Economy Plus
22	Pheny Eri	09-02-2020	Economy Plus
32	Chirstoper Sean	04-03-2021	Economy Plus
47	Sophia Carl	15-12-2020	Economy Plus
50	Rose Arthur	15-08-2020	Economy Plus

```
-- 9. Write a query to identify whether the revenue has crossed 10000 using the IF clause on the ticket details table.
110
111
112
         select sum(price per ticket * no of tickets) as Total Revenue,
                 if(sum(price_per_ticket * no of tickets) > 10000, 'Yes', 'No')
113
114
                 as Revenue crossed 10000
        from ticket details
115
116
Result Grid
              Filter Rows:
                                          Export: Wrap Cell Content: TA
   Total_Revenue
               Revenue crossed 10000
  15369
                Yes
```

```
108
                                         having class id = 'Economy Plus'
   ▼ 📅 Views
      www business class
                               109
     Stored Procedures
                                         -- 9. Write a query to identify whether the revenue has crossed 10000 using the IF clause on the ticket details table.
                                110
     Functions
                                111
   bcg_wave
▶ 🗐 new_bcg
                                112
                                         select sum(price per ticket * no of tickets) as Total Revenue,
                                                  if(sum(price per ticket * no of tickets) > 10000, 'Yes', 'No')
                                113
▶ dest
                                114
                                                  as Revenue crossed 10000
                                115
                                         from ticket details
                                116
                                117
                                         -- 10. Write a guery to create a view with only business class customers along with the brand of airlines.
                                118
                                         create view vw business class as
                                119
Administration Schemas
                                120
Information :
                                121
                                         select t.customer id,
                                122
                                                  concat(first_name,' ', last_name) as "Full Name",
   View:
                                123
                                                  t.class id,
  vw business class
                                124
                                                  brand
  Columns:
                                125
                                          from customer c
     customer_id
                                         inner join passengers on flights p
     Full Name
                 mediumtext
                               126
     class_id
                  text
                                127
                                         on c.customer id = p.customer id
     brand
                  text
                                         inner join ticket_details t
                                128
                                         on p.customer id = t.customer id
                                129
                                130
                                         group by p.customer id, class id, brand
                                         having class id = 'Business'
                                131
                                132
                                227
                               Action Output
                                                                                                                                                                        Message
                                    29 20:29:05 create view vw_business_class as select t.customer_id, concat(first_name, '', last_name) as "Full Name",
                                                                                                                                                 brand from customer c in... Error Code: 1050. Table 'vw_business_class' already exists
                                                                                                                                     t.class_id,
                                                                                                                                                 brand from customer c in... Error Code: 1050. Table 'vw_business_class' already exists
                                    30 20:29:19 create view vw_business_class as select t.customer_id, concat(first_name, '', last_name) as "Full Name",
                                                                                                                                     t.class id.
                                    31 20:29:32 DROP VIEW 'bcg_sql_project'.'vw_business_class'
                                                                                                                                                                        0 row(s) affected
                                    32 20:29:53 create view vw business class as select t.customer id, concatifirst name," last name) as "Full Name",
                                                                                                                                                 brand from customer c in... 0 row(s) affected
Object Info Session
```

```
▼ 📅 Stored Procedures
                                         133
       get passengers between routes
                                               /* 11.Write a query to create a stored procedure to get the details of all passengers
                                         134
    Functions
                                                  flying between a range of routes defined in run time. Also, return an error message
                                         135
  bcg wave
                                         136
                                                  if the table doesn't exist. */
  new bcg
    SYS
                                         137
▶ dest
                                                  delimiter $$
                                         138
                                                  create procedure get passengers between routes
                                         139 •
                                         140
                                                  (in start route int, in end route int)
                                               ⊖ begin
                                         141
                                                  if not exists
                                         142
                                                      (select * from passengers on flights where route_id between start_route and end_route)
                                         143
Administration Schemas
                                         144
                                                      then
Information
                                         145
                                                          select "The table doesnt exist" AS error_message;
                                         146
                                                      else
  No object selected
                                                           select c.first_name, c.last_name, p.*
                                         147
                                                          from passengers on flights p
                                         148
                                                           inner join
                                         149
                                         150
                                                           customer c
                                                          on p.customer id = c.customer id
                                         151
                                                          where p.route_id between start_route and end route;
                                         152
                                         153
                                                  end if;
                                                  end $$
                                         154
                                         155
                                                  delimiter;
                                         156
                                            Action Output
                                                 Time
                                                         Action
                                                                                                   Message
                                                                                                                                              Duration / Fetch
                                             38 20:49:57 DROP PROCEDURE 'bcg_sql_project'. 'Dist_travel'
                                                                                                                                              0.000 sec
                                                                                                   0 row(s) affected
                                             39 20:50:00 DROP PROCEDURE 'bcg_sql_project'.'get_passeng... 0 row(s) affected
                                                                                                                                              0.000 sec
                                             40 20:50:02 DROP PROCEDURE 'bcg_sql_project'.'get_routes_o... 0 row(s) affected
                                                                                                                                              0.000 sec
                                                                                                                                              0.000 sec
                                             41 20:50:38 create procedure get passengers between routes (in... 0 row(s) affected
Object Info
          Session
```

Juan Completed

Stored Procedures Get_passengers_between_routes Get_routes_over_2000_miles Functions bcg_wave new_bcg sys test	157 /* 12. Write a query to create a stored procedure that extracts all the details from the routes table where the traveled distance is more than 2000 miles. */ 159 delimiter \$\$ create procedure get_routes_over_2000_miles() begin select * FROM routes where distance_miles > 2000; end \$\$ delimiter; delimiter; delimiter; delimiter;						
Administration Schemas	_						
Information	Out	put 📨	20000000000000			tototototototototototototo	
	a	Actio	n Output	*			
No object selected		#	Time	Action	Message	Duration / Fetch	
	0	26	20:27:52	DROP PROCEDURE 'bcg_sql_project'.'Dist_travel'	0 row(s) affected	0.016 sec	
	0	27	20:27:55	DROP PROCEDURE 'bcg_sql_project'.'get_passeng	0 row(s) affected	0.000 sec	
	0	28	20:27:57	DROP PROCEDURE 'bcg_sql_project'.'get_routes_o	. 0 row(s) affected	0.000 sec	
	0	29	20:29:05	create view vw_business_class as select t.customer	Error Code: 1050. Table 'vw_business_class' already e	. 0.000 sec	
	0	30	20:29:19	create view vw_business_class as select t.customer	Error Code: 1050. Table 'vw_business_class' already e	. 0.000 sec	
	0	31	20:29:32	DROP VIEW 'bcg_sql_project'.'vw_business_class'	0 row(s) affected	0.000 sec	
	0	32	20:29:53	create view vw_business_class as select t.customer	0 row(s) affected	0.000 sec	
	0	33	20:34:49	create procedure get_passengers_between_routes (in	. 0 row(s) affected	0.000 sec	
	0	34	20:38:12	create procedure get_routes_over_2000_miles() BEGI	. 0 row(s) affected	0.000 sec	
	0	35	20:38:20	call bcg_sql_project.get_routes_over_2000_miles()	24 row(s) returned	0.016 sec / 0.000 sec	
	0	36	20:44:44	create procedure Dist_travel () BEGIN select case wh.	. 0 row(s) affected	0.015 sec	
	0	37	20:49:10	create procedure get_passengers_between_routes (in	. Error Code: 1304. PROCEDURE get_passengers_bet	0.000 sec	
	0	38	20:49:57	DROP PROCEDURE 'bcg_sql_project'. 'Dist_travel'	0 row(s) affected	0.000 sec	
	0	39	20:50:00	DROP PROCEDURE 'bcg_sql_project'.'get_passeng	0 row(s) affected	0.000 sec	
	0	40	20:50:02	DROP PROCEDURE 'bcg_sql_project'.'get_routes_o	. 0 row(s) affected	0.000 sec	
	0	41	20:50:38	create procedure get_passengers_between_routes (in	. 0 row(s) affected	0.000 sec	
Object Info Session	0	42	20:52:49	create procedure get_routes_over_2000_miles() begin	. 0 row(s) affected	0.000 sec	

SCHEMAS **	🚞 🔚 🐓 😿 👰 🔘 🚱 ⊘ 💿 🐻 Limit to 1000 rows 🔻 🚖 🥩 🔍 🗻 🖃						
Q Filter objects	170 \ominus /*13. Write a query to create a stored procedure that groups the distance traveled by						
▼ 🛢 bcg_sql_project	each flight into three categories. The categories are, short distance travel (SDT)						
▼ 🖶 Tables	for >=0 AND <= 2000 miles, intermediate distance travel (IDT) for >2000 AND <=6500,						
customerpassengers_on_flights	173 and long-distance travel (LDT) for >6500. */						
route_details	174						
▶ ☐ routes	175						
▶	176 delimiter \$\$						
▼ 📅 Stored Procedures	177 • create procedure Dist_travel ()						
△ Dist_travel	178 ⊝ begin						
get_passengers_between_routes get_routes_over_2000_miles	179 select case						
Functions	180 when distance_miles between 0 and 2000 then 'Short Distance Travel'						
▶ ⊜ bcg_wave	when distance_miles >2000 and distance_miles <=6500 then 'Intermediate Distance Travel'						
▶ ■ new_bcg ▶ ■ sys	182 else 'Long Distance Travel'						
test	183 end						
NOS-10-707-33-00004-30-	184 as dist_class,						
	185 route_id from routes						
	186 order by distance_miles, dist_class, route_id;						
Administration Schemas	187 end \$\$						
CONTROL OF THE PROPERTY OF THE	188 delimiter;						
Information	189						
No object selected	190						
	Output						
	☐ Action Output ▼						
	# Time Action Message 31 20:29:32 DROP VIEW 'bcg_sql_project`.'vw_business_class` 0 row(s) affected	Duration / Fetch 0.000 sec					
		0.000 sec					
	32 20:29:53 create view vw_business_class as select t.customer 0 row(s) affected	0.000 sec					
	33 20:34:49 create procedure get_passengers_between_routes (in 0 row(s) affected	0.000 sec					
	34 20:38:12 create procedure get_routes_over_2000_miles() BEGI 0 row(s) affected	0.000 sec 0.016 sec / 0.000 sec					
	35 20:38:20 call bcg_sql_project.get_routes_over_2000_miles() 24 row(s) returned						
	36 20:44:44 create procedure Dist_travel () BEGIN select case wh 0 row(s) affected	0.015 sec					
	37 20:49:10 create procedure get_passengers_between_routes (in Error Code: 1304. PROCEDURE get_passengers_bet	0.000 sec					
	38 20:49:57 DROP PROCEDURE 'bcg_sql_project'.'Dist_travel' 0 row(s) affected	0.000 sec					
	39 20:50:00 DROP PROCEDURE 'bcg_sql_project'.'get_passeng 0 row(s) affected	0.000 sec					
	40 20:50:02 DROP PROCEDURE 'bcg_sql_project'.'get_routes_o 0 row(s) affected	0.000 sec					
	41 20:50:38 create procedure get_passengers_between_routes (in 0 row(s) affected	0.000 sec					
	42 20:52:49 create procedure get_routes_over_2000_miles() begin 0 row(s) affected	0.000 sec					
	43 20:58:26 create procedure Dist_travel () begin select case whe 0 row(s) affected	0.000 sec					
Object Info Session							