CP 363 Assignment 5

Tourism Agency Booking System DBMS

Group 37

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Hibah Hibah

Donil Patel

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-- Query 1: Customers who have booked at least one tour (Using EXISTS)

SELECT C.first_name AS "Customer First Name",

C.last_name AS "Customer Last Name"

FROM Customer C

WHERE EXISTS (

SELECT 1 FROM Booking B WHERE B.customer_id = C.customer_id

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-- Query 2: Union of customers who booked expensive tours and customers who made high payments (Using UNION)

FROM Customer C

JOIN Booking B ON C.customer_id = B.customer_id

WHERE B.total_cost > 2500

UNION

SELECT C.first_name, C.last_name, 'High Payment' AS Type

FROM Customer C

JOIN Booking B ON C.customer_id = B.customer_id

MHERE B.total_cost > 2500

UNION

SELECT C.first_name, C.last_name, 'High Payment' AS Type

FROM Customer C

JOIN Booking B ON C.customer_id = B.customer_id

JOIN Payment P ON B.booking_id = P.booking_id

WHERE P.payment_amount > 2500;
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CREATE VIEW CustomerTotalSpending AS
  SELECT C.customer_id AS "Customer ID",
         CONCAT(C.first_name, ' ', C.last_name) AS "Customer Name",
         (SELECT SUM(B.total_cost) FROM Booking B WHERE B.customer_id = C.customer_id) AS "Total Spent ($)"
  FROM Customer C;
  CREATE VIEW PopularTourPackages AS
  SELECT T.package_name AS "Tour Package",
         T.destination AS "Destination",
         T.TotalTourists

→ FROM (SELECT TP.package_name,

               TP.destination,
               SUM(B.number_of_people) AS TotalTourists
        FROM Tour_Package TP
        JOIN Booking B ON TP.package_id = B.package_id
        GROUP BY TP.package_name, TP.destination) T
  WHERE T.TotalTourists > 10;
```

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-- View 3: Above Average Bookings (using a subquery in the WHERE clause)

CREATE VIEW AboveAverageBookings AS

SELECT B.booking_id AS "Booking ID",

CONCAT(C.first_name, ' ', C.last_name) AS "Customer Name",

TP.package_name AS "Tour Package",

B.number_of_people AS "Number of People"

FROM Booking B

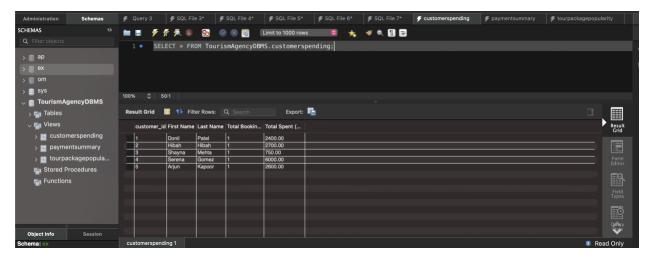
JOIN Customer C ON B.customer_id = C.customer_id

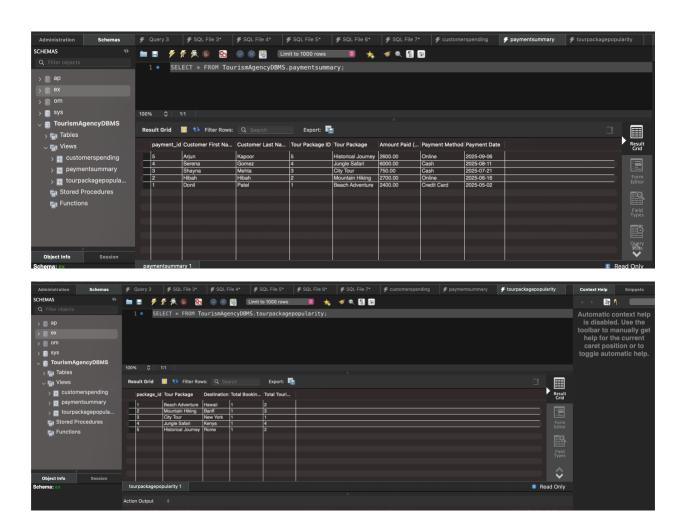
JOIN Tour_Package TP ON B.package_id = TP.package_id

WHERE B.number_of_people > (

SELECT AVG(B2.number_of_people) FROM Booking B2 WHERE B2.package_id = B.package_id

);
```





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	<u> 1</u>	19:45:30	DROP DATABASE IF EXISTS TourismAgencyDBMS	0 row(s) affected, 1 warning(s): 1008 Can't drop data	0.00052 sec
	2	19:45:30	CREATE DATABASE TourismAgencyDBMS	1 row(s) affected	0.0010 sec
	3	19:45:30	USE TourismAgencyDBMS	0 row(s) affected	0.00017 sec
	9 4	19:45:30	CREATE TABLE Customer (customer_id INT PRIMARY KEY NOT NULL UNIQUE, first_nam	0 row(s) affected	0.015 sec
	9 5	19:45:30	CREATE TABLE Tour_Package (package_id INT PRIMARY KEY NOT NULL UNIQUE, packa	0 row(s) affected	0.0072 sec
	9 6	19:45:30	CREATE TABLE Booking (booking_id INT PRIMARY KEY NOT NULL UNIQUE, booking_dat	0 row(s) affected	0.011 sec
	9 7	19:45:30	CREATE TABLE Payment (payment_id INT PRIMARY KEY NOT NULL UNIQUE, booking_id	0 row(s) affected	0.0046 sec
	8	19:45:30	CREATE TABLE Guide (guide_id INT PRIMARY KEY NOT NULL UNIQUE, guide_name VAR	0 row(s) affected	0.0044 sec
	9	19:45:30	CREATE TABLE Tour_Schedule (schedule_id INT PRIMARY KEY NOT NULL UNIQUE, pack	0 row(s) affected	0.0061 sec
	3 10	19:45:30	CREATE TABLE Hotel (hotel_id INT PRIMARY KEY NOT NULL UNIQUE, hotel_name VARC	0 row(s) affected	0.0039 sec
	11	19:45:30	CREATE TABLE Package_Hotel (package_id INT NOT NULL, hotel_id INT NOT NULL, st	0 row(s) affected	0.0044 sec
	12	19:45:30	CREATE TABLE Transportation (transport_id INT PRIMARY KEY NOT NULL UNIQUE, trans	0 row(s) affected	0.0035 sec
	13	19:45:30	CREATE TABLE Package_Transport (package_id INT NOT NULL, transport_id INT NOT N	0 row(s) affected	0.0040 sec
	14	19:45:30	SHOW TABLES	10 row(s) returned	0.00059 sec / 0.000
	15	19:45:37	USE TourismAgencyDBMS	0 row(s) affected	0.00022 sec
	9 16	19:45:37	INSERT INTO Customer (customer_id, first_name, last_name, email, phone, address) VALUES	5 row(s) affected Records: 5 Duplicates: 0 Warnings	0.0019 sec
	17	19:45:37	INSERT INTO Tour_Package (package_id, package_name, destination, price_per_person, start	5 row(s) affected Records: 5 Duplicates: 0 Warnings	0.0022 sec
	9 18	19:45:37	INSERT INTO Booking (booking_id, booking_date, customer_id, package_id, number_of_peopl	5 row(s) affected Records: 5 Duplicates: 0 Warnings	0.0077 sec
	9 19	19:45:37	INSERT INTO Payment (payment_id, booking_id, payment_date, payment_amount, payment	5 row(s) affected Records: 5 Duplicates: 0 Warnings	0.0014 sec
	2 0	19:45:37	INSERT INTO Guide (guide_id, guide_name, contact_number, language, availability_status) VA	5 row(s) affected Records: 5 Duplicates: 0 Warnings	0.0024 sec
	3 21	19:45:37	SELECT * FROM Customer LIMIT 0, 1000	5 row(s) returned	0.00033 sec / 0.0000
	22	19:45:37	SELECT * FROM Tour_Package LIMIT 0, 1000	5 row(s) returned	0.0070 sec / 0.00000
	23	19:45:37	SELECT * FROM Booking LIMIT 0, 1000	5 row(s) returned	0.00023 sec / 0.0000
	24	19:45:37	SELECT * FROM Payment LIMIT 0, 1000	5 row(s) returned	0.00017 sec / 0.0000
1	9 25	19:45:37	SELECT * FROM Guide LIMIT 0, 1000	5 row(s) returned	0.00017 sec / 0.0000
	∂ 2€	19:46:07	CREATE VIEW CustomerSpending AS SELECT C.customer_id, C.first_name AS "First Na	0 row(s) affected	0.0020 sec
1	27	19:46:11	CREATE VIEW TourPackagePopularity AS SELECT TP.package_id, TP.package_name AS	0 row(s) affected	0.0050 sec
	28		CREATE VIEW PaymentSummary AS SELECT P.payment_id, C.first_name AS "Customer	0 row(s) affected	0.0028 sec
1	29		SELECT C.first_name AS "Customer First Name", C.last_name AS "Customer Last Name"		0.0018 sec / 0.00001
	3 (SELECT C.first_name, C.last_name, 'High Booking' AS Type FROM Customer C JOIN Booking		0.0036 sec / 0.0000
•	31	19:47:14	SELECT C.first_name, C.last_name FROM Customer C JOIN Booking B ON C.customer_id = B	0 row(s) returned	0.00053 sec / 0.0000
	32		SELECT C.first_name AS "Customer First Name", C.last_name AS "Customer Last Name",		0.0031 sec / 0.00000
	33		SELECT AVG(price_per_person) AS "Average Price", STDDEV(price_per_person) AS "Pric		0.00075 sec / 0.0000
	· 34		SELECT package_name, destination, price_per_person FROM Tour_Package WHERE price_per		0.00074 sec / 0.0000
	35		SELECT TP.destination AS "Destination", SUM(B.total_cost) AS "Total Revenue (\$)" FROM		0.00053 sec / 0.0000
	· 36			0 row(s) affected	0.0038 sec
	37	19:47:14	CREATE VIEW PopularTourPackages AS SELECT T.package_name AS "Tour Package", T.d	0 row(s) affected	0.0033 sec

41 19:47:47 SELECT • FROM TourismAgencyDBMS.paymentsummary LIMIT 0, 1000 5 row(s) returned 0.0010 sec / 0.0000		38	19:47:14	CREATE VIEW AboveAverageBookings AS SELECT B.booking_id AS "Booking ID",	CONCA	0 row(s) affected	0.0016 sec
41 19:47:47 SELECT • FROM TourismAgencyDBMS.paymentsummary LIMIT 0, 1000 5 row(s) returned 0.0010 sec / 0.0000	*	39	19:47:24	CREATE VIEW CustomerTotalSpending AS SELECT C.customer_id AS "Customer ID",	CON	Error Code: 1050. Table 'CustomerTotalSpending' alre	0.00081 sec
		40	19:47:44	SELECT * FROM TourismAgencyDBMS.customerspending LIMIT 0, 1000		5 row(s) returned	0.00080 sec / 0.000
42 19:47:49 SELECT * FROM TourismAgencyDBMS.tourpackagepopularity LIMIT 0, 1000 5 row(s) returned 0.0016 sec / 0.0000		41	19:47:47	SELECT * FROM TourismAgencyDBMS.paymentsummary LIMIT 0, 1000		5 row(s) returned	0.0010 sec / 0.00000
		42	19:47:49	SELECT * FROM TourismAgencyDBMS.tourpackagepopularity LIMIT 0, 1000		5 row(s) returned	0.0016 sec / 0.00000