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-- Creating Database aircargo and querying to start using it
create database if not exists aircargo;
use aircargo;
-- Creating 4 tables for database (customer, pof, routes, ticket details)
and inserting data using import wizard.
drop table if exists customer;
CREATE TABLE if not exists customer (
 customer id int,
 first_name varchar(100) NOT NULL,
 last name varchar(100) DEFAULT NULL,
 date of birth date NOT NULL,
 gender varchar(1) NOT NULL,
 PRIMARY KEY (customer id),
 CONSTRAINT Gender check CHECK ((gender in ('M','F','O')))
);
describe customer;
CREATE TABLE routes (
 route id int NOT NULL,
 flight num int NOT NULL,
 origin airport varchar(3) NOT NULL,
 destination_airport varchar(100) NOT NULL,
 aircraft id varchar(100) NOT NULL,
 distance miles int NOT NULL,
 PRIMARY KEY (route id),
 CONSTRAINT Flight number check CHECK ((substr(flight num, 1, 2) = 11)),
 CONSTRAINT routes chk 1 CHECK ((distance miles > 0))
);
CREATE TABLE ticket details (
 p date date NOT NULL,
 customer id int NOT NULL,
 aircraft_id varchar(100) NOT NULL,
 class id varchar(100) DEFAULT NULL,
 no of tickets int DEFAULT NULL,
 a code varchar(3) DEFAULT NULL,
 Price per ticket int DEFAULT NULL,
 brand varchar(100) DEFAULT NULL,
 KEY customer_id (customer_id),
 CONSTRAINT ticket details ibfk 1 FOREIGN KEY (customer id) REFERENCES
customer (customer id)
);
-- Finding the full name of the customer by extracting the first name and
last name from the customer table.
select concat(first name, ' ', last name) as Name from customer
order by name;
-- Querying data of customers who have booked at least a ticket and total
tickets booked by them.
select c.customer id , concat(c.first name, ' ' , c.last name) as Name,
count(t.no of tickets) as Total Tickets booked
from customer c
join ticket details t using (customer id)
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group by c.customer id, Name
order by Total tickets booked desc;
drop procedure if exists revenue;
delimiter //
create procedure revenue (in target int, out Revenue varchar(100))
begin
declare y int;
select sum(no of tickets*price per ticket) into y from ticket details;
if y > target
then set Revenue = concat('Revenue Crossed', '', target);
else set Revenue = concat('Revenue less than', ' ' , target);
end if;
end //
delimiter;
call revenue (15000, @Rev);
select @Rev as Revenue Status;
use aircargo;
-- Fetching max ticket price for each class
with cte as (
select class id, max(price per ticket) as Maximum price,
dense rank () over (partition by class id) as dense
from ticket details
group by class id)
select class id, Maximum price from cte where dense = 1;
select brand, class id, price per ticket, max(price per ticket)
over(partition by class id ) from ticket details
order by 2;
-- Fetching total revenue generated for each aircraft
select if (grouping (aircraft id), 'Total', aircraft id) as Aircraft,
sum (no of tickets) as Total tickets,
sum(no of tickets*price_per_ticket) as Total_Revenue
from ticket details
group by aircraft id with rollup
order by 3;
-- Create view for business class customers with brand of airline
drop view if exists business class;
create view business class as select c.first name, c.last name, t.brand
from customer c
join ticket details t using (customer id)
where class id in ('Business');
select brand from business class order by 1;
-- Fetching customer details using procedure where distance travelled is
more than 2000
drop procedure if exists distance;
delimiter //
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create procedure distance( in miles int)
begin
select * from routes
where distance miles >miles
order by distance miles;
end//
delimiter ;
call distance (2000);
-- Creating a procedure to analyze if the distance travelled by a aircraft
on particular route is Short distance, intermediate distance
-- or long distance travel
show procedure status where db = 'aircargo';
drop procedure if exists Distance info;
delimiter //
create procedure distance info(in route int, out info varchar(200))
begin
declare x int;
select distance miles into x from routes where route id = route;
if x < 2000 then set info = 'Short Distance Travel';
elseif x between 2000 and 6500 then set info = 'Intermediate Distance
travel';
elseif x \ge 6500 then set info = 'Long Distance Travel';
end if;
end//
delimiter ;
use aircargo;
```