CA2 project Database

* Tanish Afre

A Travel consultancy / agent need database to keep a track of how many people are traveling, where they are traveling, which hotel they would be staying, the important dates and timings. Not just this but also the mode of transport they are going to use for arriving at the hotel. Hence create 5 different tables which shows the details of company, tourists, plans, itinerary, and cargo.

|  |  |  |  |
| --- | --- | --- | --- |
| Travel\_Company |  |  |  |
| Company\_ID  (PrimaryKey) | Company\_Name | Address | Contact\_Number\_Company |
| 159EG | Expedia Group | St. Dowel Streat US | 159753456 |
| 917BH | Booking Holdings | Gandhi Nagar India | 917364825 |

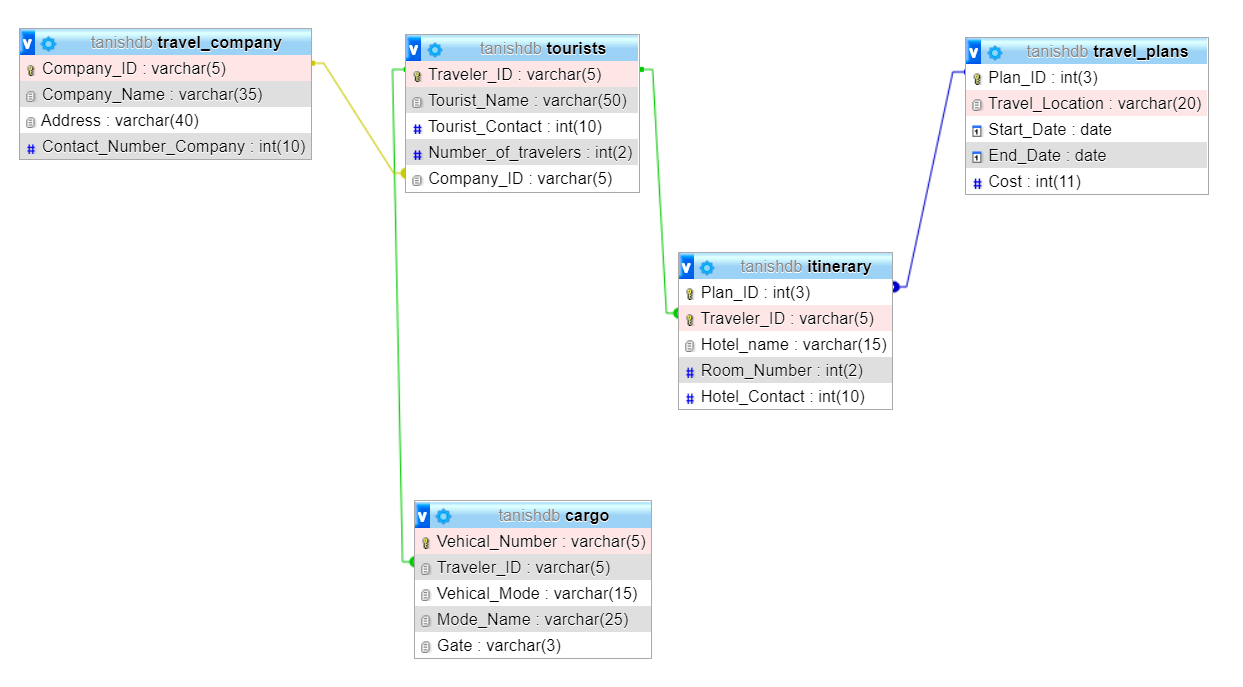
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Tourists |  |  |  |  |
| Traveler\_ID  (PrimaryKey) | Tourist\_Name | Tourist\_Contact | Number\_of\_travelers | Company\_ID  (ForeignKey) |
| AB123 | Tanish Afre | 123456789 | 3 | 159EG |
| YX321 | Annas Khan | 884365162 | 1 | 917BH |
| GH951 | Joseph Mophet | 955191609 | 7 | 159EG |
| YD015 | Marin Trench | 276627757 | 1 | 159EG |
| DK564 | Avijot Singh | 456816597 | 3 | 159EG |
| SJ988 | Alexa Amazon | 854654815 | 2 | 159EG |
| TA722 | Mari Juan | 726195122 | 5 | 159EG |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Travel\_Plans |  |  |  |  |
| Plan\_ID  (PrimaryKey) | Travel\_Location | Start\_Date | End\_Date | Cost |
| 001 | New Your | 2021-05-31 | 2021-06-04 | 2000 |
| 002 | Delhi | 2021-08-27 | 2021-08-30 | 1050 |
| 003 | Mumbai | 2021-05-20 | 2021-06-05 | 1200 |
| 004 | Toronto | 2021-08-10 | 2021-08-20 | 1500 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Itinerary |  |  |  |  |
| Plan\_ID  (PrimaryKey)  (ForeignKey) | Traveler\_ID  (PrimaryKey)  (ForeignKey) | Hotel\_name | Room\_Number | Hotel\_Contact |
| 001 | AB123 | Stark | 31 | 888999444 |
| 002 | YX321 | Lodhi | 97 | 955161962 |
| 003 | GH951 | Taj | 4 | 984649162 |
| 001 | YD015 | Stark | 32 | 621953216 |
| 003 | DK564 | Taj | 5 | 462191196 |
| 004 | SJ988 | Mandala | 36 | 951621986 |
| 004 | TA722 | Mandala | 37 | 152351651 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Cargo |  |  |  |  |
| Vehical\_Number  (PrimaryKey) | Traveler\_ID  (ForeignKey) | Vehical\_Mode | Mode\_Name | Gate |
| BA180 | AB123 | Aeroplane | British Airways | T2 |
| EM720 | YX321 | Aeroplane | Emirates | T6 |
| 15786 | GH951 | Train | Indian Express | P12 |
| 132NY | YD015 | Bus | NYB Limited | S3 |
| 19258 | DK564 | Train | Indian Express | P12 |
| BA786 | SJ988 | Aeroplane | British Airways | T3 |
| BA691 | TA722 | Aeroplane | British Airways | T6 |

Entity Relationship Diagram from XAMPP



## SQL Queries

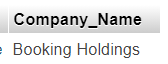
Q1 – The companies want names, contact details and number of travellers traveling, to confirm the number of travellers traveling. Write down an SQL query helping them out.

* SELECT Tourist\_Name, Tourist\_Contact, Number\_of\_travelers FROM `tourists`;
* Output:

Q2 – While talking to the tourists, the company found out that tourist with name Tanish Afre is traveling with one other. Write SQL query to update his Number\_of\_travelers column to 2.

* UPDATE `tourists` SET `Number\_of\_travelers`= 2 WHERE Tourist\_Name = "Tanish Afre";
* Output:

Q3 – Write a SQL query to find out which travel company has travel plans for Delhi city.

* SELECT Company\_Name FROM travel\_company WHERE Company\_ID = (SELECT Company\_ID FROM tourists WHERE Traveler\_ID = (SELECT Traveler\_ID FROM itinerary WHERE Plan\_ID = (SELECT Plan\_ID FROM travel\_plans WHERE Travel\_location = "Delhi")));
* Output:

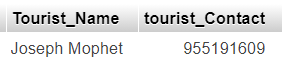
Q4 – Mari Juan just called the company and told them that her flight gate has changed from T6 to T8. Write SQL statement to make the following changes.

* UPDATE cargo SET Gate = "T8" WHERE Traveler\_ID = (SELECT Traveler\_ID FROM tourists WHERE Tourist\_Name = "Mari Juan");
* Output :

Q5 – The company wants to know the end date of Annas Khan as they want to surprise him with a party on his birthday. Write a query to get the end date.

* SELECT End\_Date FROM travel\_plans WHERE Plan\_ID = (SELECT Plan\_ID FROM itinerary WHERE Traveler\_ID = (SELECT Traveler\_ID FROM tourists WHERE Tourist\_Name = "Annas Khan"));
* Output:

Q6 – There was a lost bag found in Taj Hotel room 4. Help finding out the name and contact number of the baggage owner.

* SELECT Tourist\_Name, tourist\_Contact FROM tourists WHERE Traveler\_ID = (SELECT Traveler\_ID FROM itinerary WHERE Hotel\_name = "Taj" AND Room\_number = 4);
* Output:

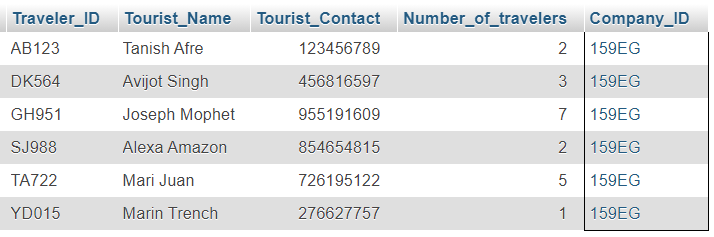
Q7 – For a survey, find out how many travellers travel in an aeroplane.

* SELECT COUNT(Vehical\_Mode) FROM cargo WHERE Vehical\_Mode = "Aeroplane";
* Output:

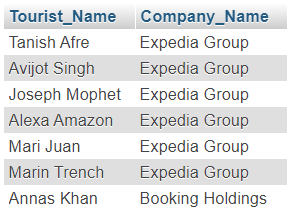
Q8 – Marin Trench wants to contact the hotel as she wants them to provide non-veg food. Write SQL query helping her find the contact details.

* SELECT Hotel\_Contact FROM itinerary WHERE Traveler\_ID = (SELECT Traveler\_ID FROM tourists WHERE Tourist\_Name = "Marin Trench");
* Output:

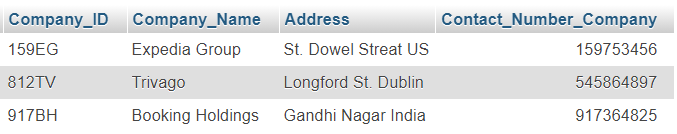
Q9 – Write SQL statement to display all details of tourists traveling with Expedia Group to different location.

* SELECT \* FROM tourists WHERE Company\_ID = (SELECT Company\_ID FROM travel\_company WHERE Company\_Name = "Expedia Group");
* Output: 

Q10 – Write an SQL query to display names of tourist and company through which the tourists are traveling.

* SELECT Tourist\_Name, Company\_Name FROM tourists JOIN travel\_company USING(Company\_ID) WHERE tourists.Company\_ID = travel\_company.Company\_ID;
* Output: 

Q11 – There is a new company established recently named as Trivago. Insert into the table with ID 812TV address Longford St. Dublin and contact as 545864897

* INSERT INTO `travel\_company` (`Company\_ID`, `Company\_Name`, `Address`, `Contact\_Number\_Company`) VALUES ('812TV', 'Trivago', 'Longford St. Dublin ', '545864897');
* Output: 

Q12 – Due to the recent covid crisis the same company had to be shut down as it was facing a lot of losses. Write the SQL query to delete the data.

* DELETE FROM travel\_company WHERE Company\_ID = "812TV";

Q13 – Company has already declared the cost of the tour and doesn’t want it to be shown in the tables. Hence write an query to remove the column cost from the table plan.

* ALTER TABLE travel\_plans DROP COLUMN Cost;