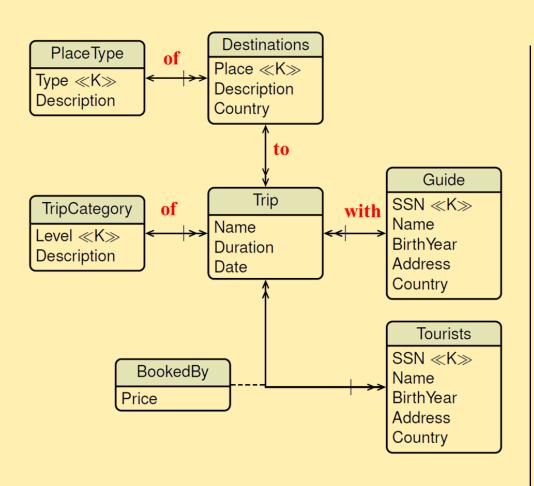
TRAVEL AGENCY: REQUIREMENTS ANALYSIS



Università di Pisa

The travel agency is interested in a DM for analyzing the travel behavior of tourists.



- Total number of tourists and average trip duration for Florence, by age band
- Total number of tourists for domestic trips, by age band, by country.
- 3. Total number of tourists, by trip name and category, by group country (alternative: age band, guide, country).
- Average trip revenue for trips of category level 1 in destination region Toscana, by type of destination, and by year.
- 5. Number of trips by place type, by month, and by guide country.

DW: Data Models

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Fact Granularity

Description

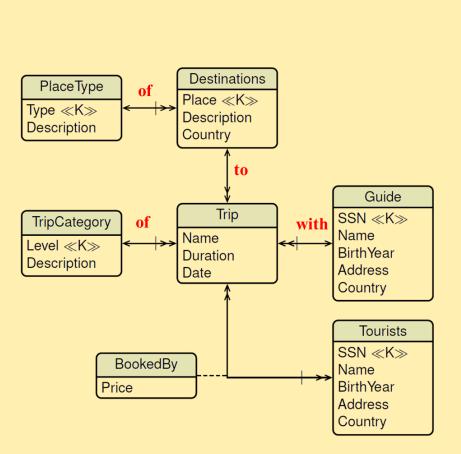
Preliminary dimensions

	Requirement	Dimensions	Measures		asures	Metrics
1.	Total number of tourists and average trip duration for Florence, by age band	Destination (City), Tourist (AgeBand)	1		Imber of tourists , Iration of trip	Totål number, Average durati
2.	Total number of tourists for domestic trips, by age band, by country.	Trip (Domestic), Tourist (AgeBand, Country)		4	N umber of tourists	SR Total number
3.	Total number of tourists, by trip name and category, by group country (alternative: age band, guide, country).	Trip (Name, Category), Tourist (Country, AgeBand), Guide (Name, Country)		1	Number of tourists	SR Total number
4.	Average trip revenue for tourists of a trip category level 1 in Toscana, by type of destination, and by year.	Trip (Category), Destination (Region Type), Date (Year)	o <u>n</u> ,		Revenue	Average reveni
5.	Number of trips by place type, by month, and by guide country.	Destination(PlaceType), Date (Month), Guide (Country)			Number of tourists	SR Total number
	Fact Granularity					
	Description	A trip of a single tourist				
	Preliminary dimensions	Destination, Guide, Date, Tourist, Trip				

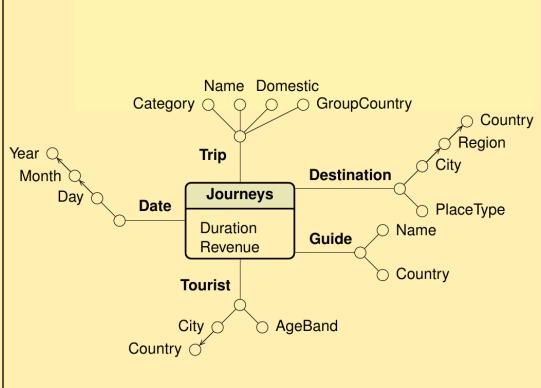


TRAVEL AGENCY: CONCEPTUAL DESIGN





DATA BASE

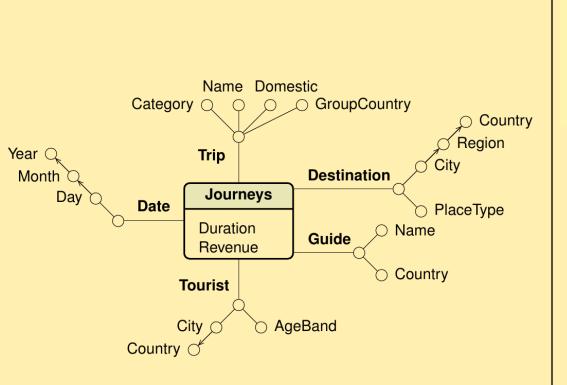


DATA MART

DW: Data Models

EXERCISE: DESIGN LOGICAL SCHEMA!





DFM SCHEMA

STAR SCHEMA

DW: Data Models

TRAVEL AGENCY: SOLVE BUSINESS QUESTIONS WITH SQL



Università di Pisa

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- 5. Number of trips by place type, by month, and by guide country.

SQL QUERIES ON STAR SCHEMA

ADDITIONAL REQUIREMENTS



- 6. Total revenue by distinct tourist
- 7. Total number of distinct tourists by year.

SQL QUERIES ON (MODIFIED) STAR SCHEMA