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Whistler Blackcomb | Mountain Stats | OnTheSnow
onthesnow.com



Whistler Ski Resort | Canada Ski Resorts | Mountainw...
mountainwatch.com

Inspiration for this project work: <https://www.whistlerblackcomb.com/> and
https://www.tripadvisor.ca/Attractions-g154948-Activities-Whistler_British_Columbia.html

- Group 1: Create a database for booking 'Season Pass'
- Group 2: Create a database for booking 'Lodge'.
- Group 3: Create a database for booking 'Snow School' for 'Ski'.
- Group 4: Create a database for booking 'Snow school' for 'Snowboard'.
- Group 5: Create a database for booking 'Rentals' for 'Ski'.
- Group 6: Create a database for booking 'Rentals' for 'Snowboard'.
- Group 7: Create a database for booking 'Whistler Rafting'
- Group 8: Create a database for booking 'RZR Off-Roading Tours from Whistler'.
- Group 9: Create a database for booking 'Mountain Explorer ATV Tour'.
- Group 10: Create a database for booking 'Callaghan Valley Winter Snowmobile Tour'.
- Group 11: Create a database for booking 'Whistler Mountain Bike Park'.
- Group 12: Create a database for booking 'Whistler Day Trip Seaplane from Vancouver'.

Catch inspiration from the website – and add necessary extra information!

Task 1. Business rules (Max 1 page)

Make a description with some basic business rules for your database. You are welcome to add some extra information. (Hint: Which data will your group like to keep track of? How is the relationships? Something similar to the description for the company database.)

Task 2. Develop an EER diagram for your project.

(Hint: First create an ER Diagram – then add additional information to this model.)

The EER diagram and the associated description should at least show:

- Entities:
 - Strong entity type
 - Weak entity type
- Relationship type:
 - one to one relationship
 - one to many relationship
 - many to many relationship
 - recursive relationship
- Attributes:
 - Single-valued attribute
 - Composite attribute
 - Multi-valued attribute
 - Derived attribute
 - Attributes on relationships
- Keys:
 - Candidate key
 - Primary key
 - Composite key
- Specialization/Generalization
 - Superclass
 - Subclass
 - Participation constraints
 - Disjoint constraint

Task 3. Develop a logical database design for the relational model:

- Go through the mapping steps in chapter 17. Show what happens in each step.
- The result should be an overview of the relational Database a la figure 17.8.
- Table for domains for some attributes a la figure 4.2

Task 4. Create a physical Database

- SQL: Data Definition – see chapter 7.
 - Create tables
 - Create constraints (PK, FK, Referential integrity, Domains etc.)
- SQL: Data Manipulation – see chapter 7.
 - Populate the tables
- SQL: Queries


- Select, from, where, group by, having, order by
- Aggregate Functions, comparison, join, exists, subqueries.
- (Start with creating of some questions – and show how these questions are answered the in SQL!)

Task 5. JDBC – Java <-> Postgresql


- From JAVA: Show how to create a table, populate a table and select data from a table.

Finish: Wednesday 13 of November 2019 at 22:00 o'clock with hand-in Wiseflow.


Explore Whistler




4WD, ATV & OFF-ROAD TOURS
Whistler Sightseeing Tour from Vancouver, see Horseshoe Bay and Shannon Falls
★★★★☆ 36 reviews




ZIPLINES
Whistler Superfly Ziplines
★★★★★ 133 reviews




BUS & MINIVAN TOURS
Whistler Small-Group Day Trip from Vancouver
★★★★☆ 439 reviews




WHITE WATER RAFTING
Whistler Whitewater Rafting
★★★★☆ 29 reviews




4WD, ATV & OFF-ROAD TOURS
RZR Off-Roading Tours from Whistler
★★★★★ 71 reviews



BAR, CLUB & PUB TOURS
Whistler Bar Hop Tour
★★★★☆ 40 reviews



WALKING TOURS
Treetop Canopy Walk in Whistler
★★★★☆ 37 reviews



4WD, ATV & OFF-ROAD TOURS
Whistler Sightseeing Tours - Discover all of Whistler this Summer!
★★★★★ 77 reviews

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