Entity Relationship Diagram for
DOST STARBOOKS: Whiz Challenge

Project Documentation Submitted to the Faculty of the
School of Computing and Information Technologies
Asia Pacific College

In Partial Fulfillment of the Requirements for
Systems Analysis and Detailed Design
MSYADD1

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G06 NEXUS – SF 231

Submitted to:
Mr. Jose Eugenio L. Quesada
Course Instructor

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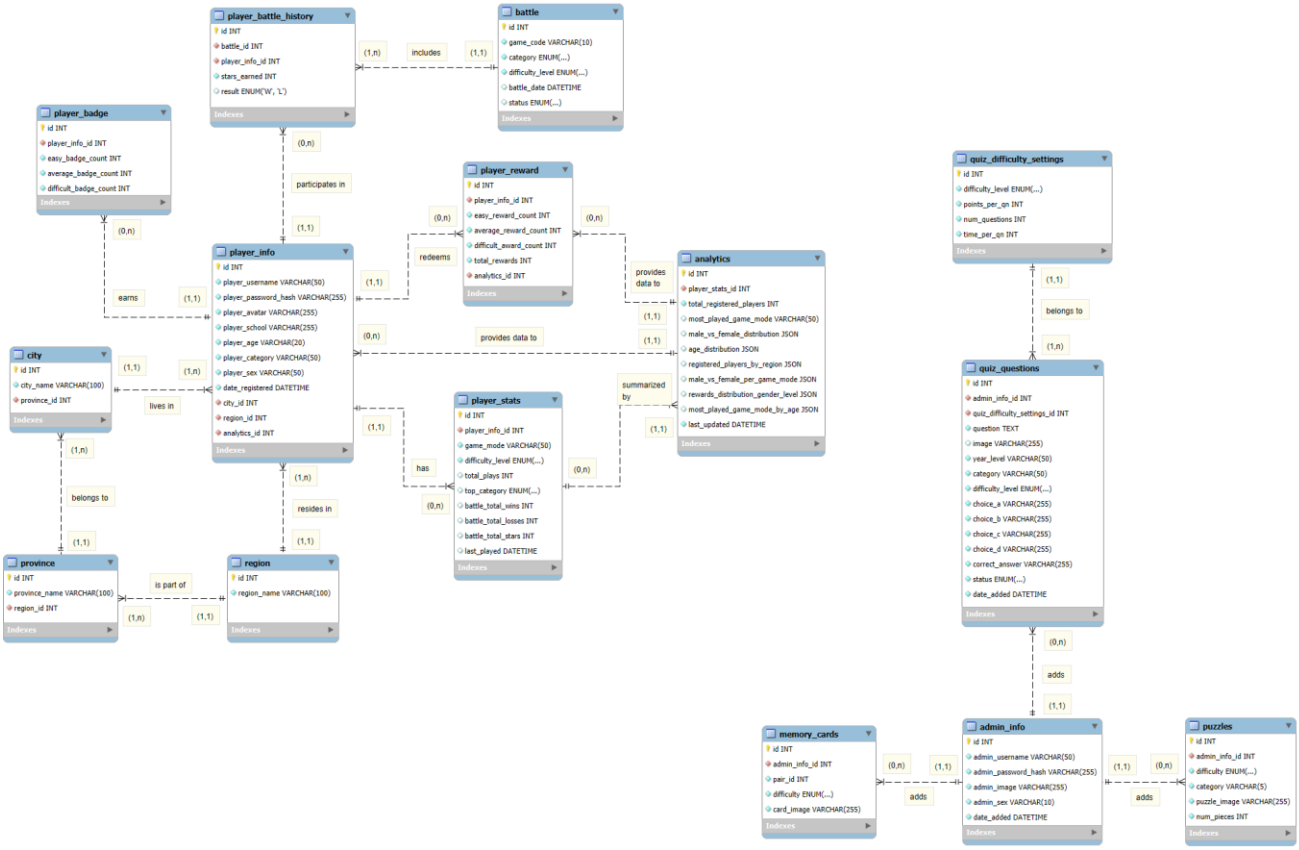
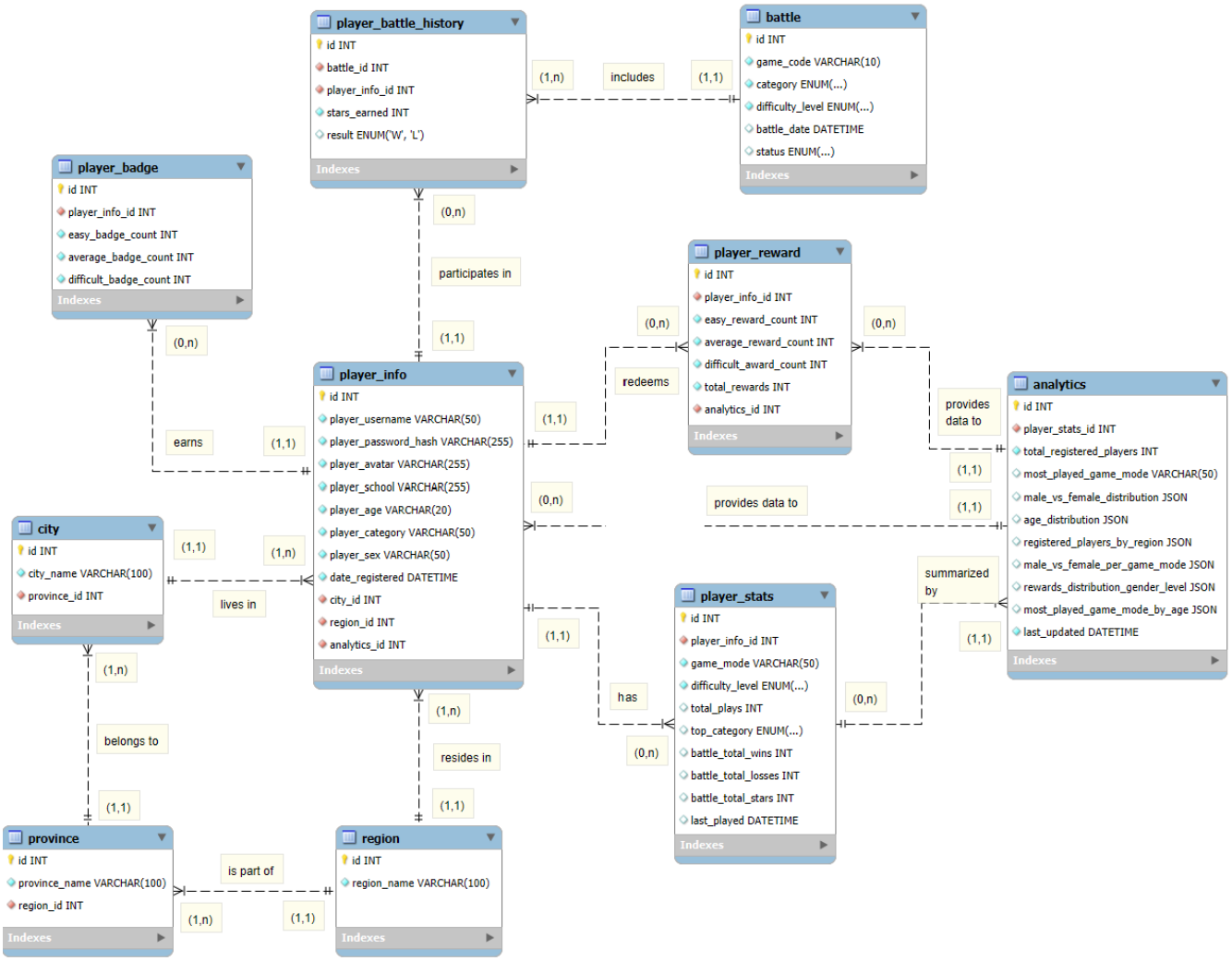
1st Term
A.Y. 2025 – 2026

FULL ERD


player_battle_history
id INT
battle_id INT
player_info_id INT
stars_earned INT
result ENUM('W', 'L')
Indexes
(1,n)
includes
(1,1)
battle
id INT
game_code VARCHAR(10)
category ENUM(...)
difficulty_level ENUM(...)
battle_date DATETIME
status ENUM(...)
Indexes
player_badge
id INT
player_info_id INT
easy_badge_count INT
average_badge_count INT
difficult_badge_count INT
Indexes
(0,n)
participates in
(1,1)
player_reward
id INT
player_info_id INT
easy_reward_count INT
average_reward_count INT
difficult_award_count INT
total_rewards INT
analytics_id INT
Indexes
(0,n)
redeems
(0,n)
quiz_difficulty_settings
id INT
difficulty_level ENUM(...)
points_per_qn INT
num_questions INT
time_per_qn INT
Indexes
(1,1)
belongs to
(1,n)
player_info
id INT
player_username VARCHAR(50)
player_password_hash VARCHAR(255)
player_avatar VARCHAR(255)
player_school VARCHAR(255)
player_age VARCHAR(20)
player_category VARCHAR(50)
player_sex VARCHAR(50)
date_registered DATETIME
city_id INT
region_id INT
analytics_id INT
Indexes
(1,1)
earns
(1,1)
(0,n)
provides data to
(1,1)
analytics
id INT
player_stats_id INT
total_registered_players INT
most_played_game_mode VARCHAR(50)
male_vs_female_distribution JSON
age_distribution JSON
registered_players_by_region JSON
male_vs_female_per_game_mode JSON
rewards_distribution_gender_level JSON
most_played_game_mode_by_age JSON
last_updated DATETIME
Indexes
provides data to
(1,1)
summarized by
(1,1)
city
id INT
city_name VARCHAR(100)
province_id INT
Indexes
(1,1)
(1,n)
lives in
(1,n)
belongs to
(1,1)
player_stats
id INT
player_info_id INT
game_mode VARCHAR(50)
difficulty_level ENUM(...)
total_plays INT
top_category ENUM(...)
battle_total_wins INT
battle_total_losses INT
battle_total_stars INT
last_played DATETIME
Indexes
(1,1)
has
(0,n)
(0,n)
quiz_questions
id INT
admin_info_id INT
quiz_difficulty_settings_id INT
question TEXT
image VARCHAR(255)
year_level VARCHAR(50)
category VARCHAR(50)
difficulty_level ENUM(...)
choice_a VARCHAR(255)
choice_b VARCHAR(255)
choice_c VARCHAR(255)
choice_d VARCHAR(255)
correct_answer VARCHAR(255)
status ENUM(...)
date_added DATETIME
Indexes
(0,n)
adds
(1,1)
province
id INT
province_name VARCHAR(100)
region_id INT
Indexes
is part of
(1,n)
(1,1)
region
id INT
region_name VARCHAR(100)
Indexes
(1,n)
resides in
(1,1)
memory_cards
id INT
admin_info_id INT
pair_id INT
difficulty ENUM(...)
card_image VARCHAR(255)
Indexes
(0,n)
adds
(1,1)
admin_info
id INT
admin_username VARCHAR(50)
admin_password_hash VARCHAR(255)
admin_image VARCHAR(255)
admin_sex VARCHAR(10)
date_added DATETIME
Indexes
(1,1)
adds
(0,n)
puzzles
id INT
admin_info_id INT
difficulty ENUM(...)
category VARCHAR(5)
puzzle_image VARCHAR(255)
num_pieces INT
Indexes

PLAYER SIDE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lives in
(1,n)
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(1,1)
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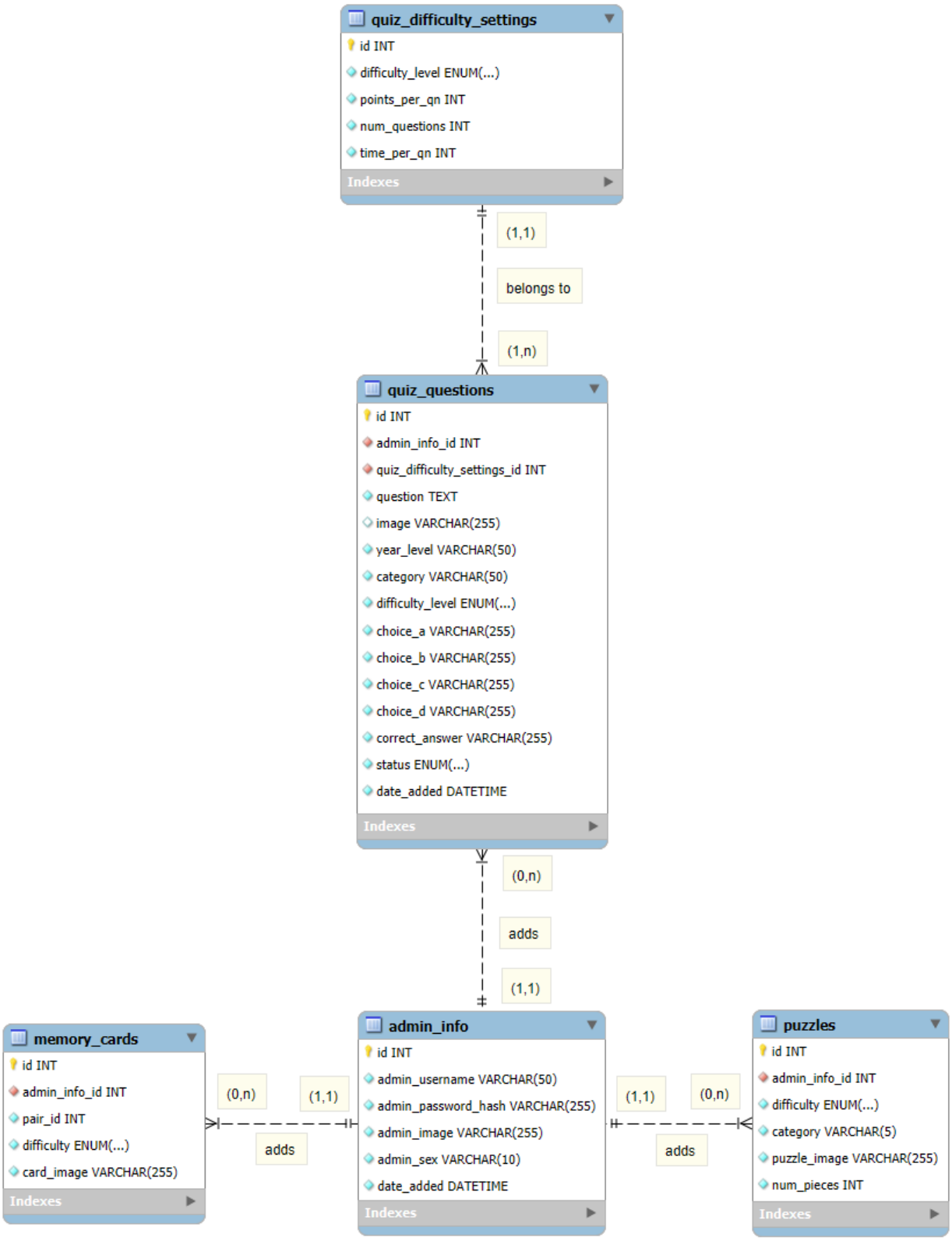
battle_total_stars INT
last_played DATETIME
Indexes
has
(0,n)
(0,n)
(1,n)
belongs to
(1,1)
(1,n)
resides in
(1,1)
province
id INT
province_name VARCHAR(100)
region_id INT
Indexes
is part of
(1,n)
(1,1)
region
id INT
region_name VARCHAR(100)
Indexes

ADMIN SIDE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admin_info_id INT
pair_id INT
difficulty ENUM(...)
card_image VARCHAR(255)
Indexes
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(1,1)
adds
admin_info
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admin_username VARCHAR(50)
admin_password_hash VARCHAR(255)
admin_image VARCHAR(255)
admin_sex VARCHAR(10)
date_added DATETIME
Indexes
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(0,n)
adds
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