New York University

Voyage of Amusements Theme Park Database Project

Part 1

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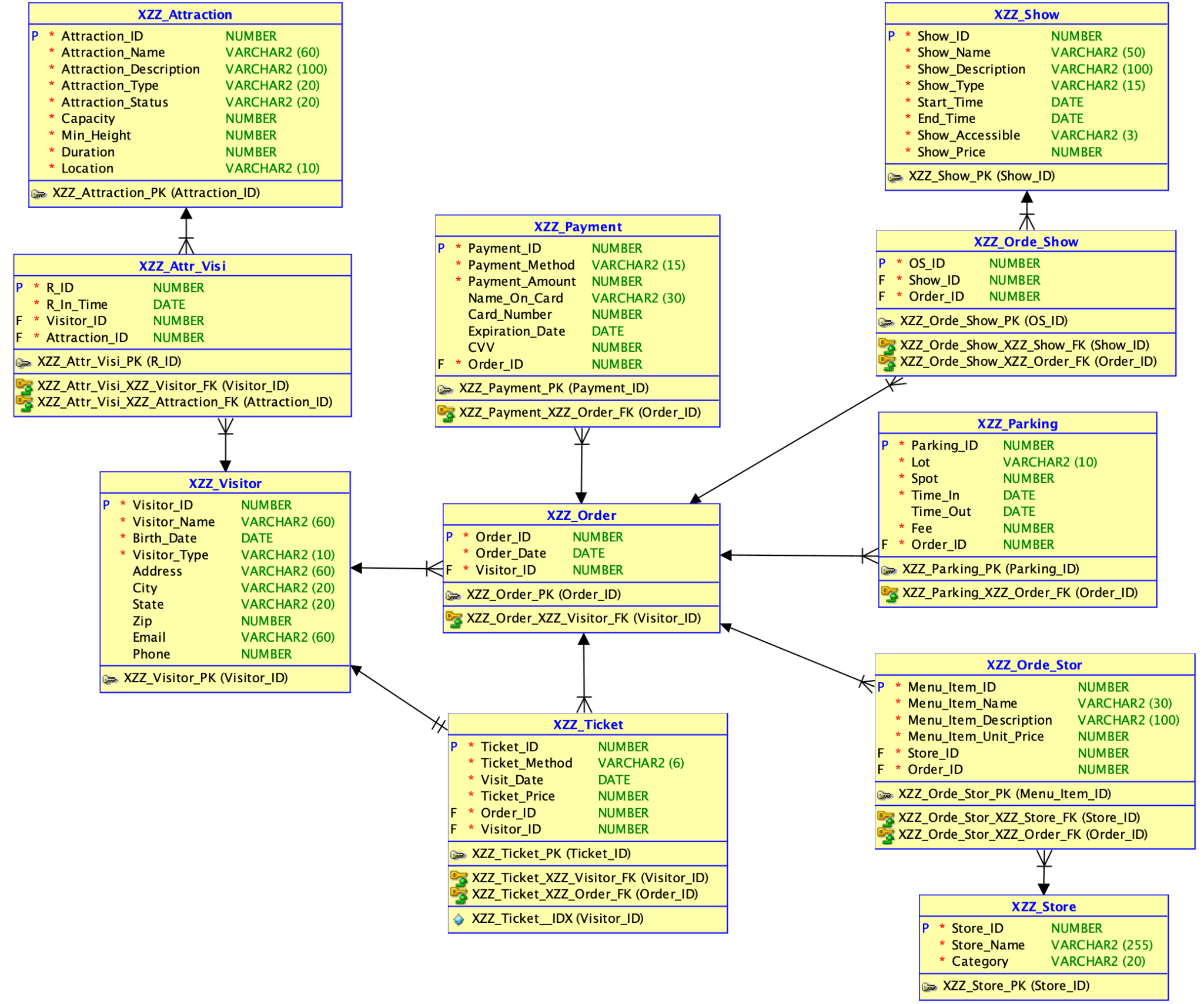
### 

### a) Logical Model

### 

### 

### b) Relational Model



### 

### c) Assumptions

1. A visitor can visit multiple attractions, and an attraction can contain lots of visitors.
2. A visitor can place many orders, and each order can be payed by not only one payment
3. Every ticket is shown in one order, and every parking charge is placed in one order. But a order invoice can contain multiple tickets and parking charges.
4. Every show and stores has many visitors and customers. Every order can contain many show or store consumptions.
5. The discount is calculated by multiplication. (e.g Online discount plus children discount is 100 \* 0.95 \* 0.85 = 80.75)
6. Our system allows pre-order purchases. For example, buying ticket for a later date, reserving a parking lot, or booking a show in the future. This means the order date can be different from the product date. When grabbing Summary table, data is determined by order date.

### 

### d) DDL Script (MySQL Version)

*-- SQLINES DEMO \*\*\* le SQL Developer Data Modeler 22.2.0.165.1149*

*-- SQLINES DEMO \*\*\* -04-04 01:13:41 EDT*

*-- SQLINES DEMO \*\*\* le Database 21c*

*-- SQLINES DEMO \*\*\* le Database 21c*

*-- SQLINES DEMO \*\*\* no DDL - MDSYS.SDO\_GEOMETRY*

*-- SQLINES DEMO \*\*\* no DDL - XMLTYPE*

*-- SQLINES LICENSE FOR EVALUATION USE ONLY*

CREATE TABLE xzz\_attr\_visi (

r\_id DOUBLE NOT NULL,

r\_in\_time DATETIME NOT NULL,

visitor\_id DOUBLE NOT NULL,

attraction\_id DOUBLE NOT NULL

)

;

ALTER TABLE xzz\_attr\_visi ADD CONSTRAINT xzz\_attr\_visi\_pk PRIMARY KEY ( r\_id );

*-- SQLINES LICENSE FOR EVALUATION USE ONLY*

CREATE TABLE xzz\_attraction (

attraction\_id DOUBLE NOT NULL,

attraction\_name VARCHAR(60) NOT NULL,

attraction\_description VARCHAR(100) NOT NULL,

attraction\_type VARCHAR(20) NOT NULL,

attraction\_status VARCHAR(20) NOT NULL,

capacity DOUBLE NOT NULL,

min\_height DOUBLE NOT NULL COMMENT 'Assume in cm',

duration DOUBLE NOT NULL COMMENT 'In Minutes',

location VARCHAR(10) NOT NULL

)

;

*/\* Moved to CREATE TABLE*

*COMMENT ON COLUMN xzz\_attraction.min\_height IS*

*'Assume in cm'; \*/*

*/\* Moved to CREATE TABLE*

*COMMENT ON COLUMN xzz\_attraction.duration IS*

*'In Minutes'; \*/*

ALTER TABLE xzz\_attraction ADD CONSTRAINT xzz\_attraction\_pk PRIMARY KEY ( attraction\_id );

*-- SQLINES LICENSE FOR EVALUATION USE ONLY*

CREATE TABLE xzz\_orde\_show (

os\_id DOUBLE NOT NULL,

show\_id DOUBLE NOT NULL,

order\_id DOUBLE NOT NULL

)

;

ALTER TABLE xzz\_orde\_show ADD CONSTRAINT xzz\_orde\_show\_pk PRIMARY KEY ( os\_id );

*-- SQLINES LICENSE FOR EVALUATION USE ONLY*

CREATE TABLE xzz\_orde\_stor (

menu\_item\_id DOUBLE NOT NULL,

menu\_item\_name VARCHAR(30) NOT NULL,

menu\_item\_description VARCHAR(100) NOT NULL,

menu\_item\_unit\_price DOUBLE NOT NULL,

store\_id DOUBLE NOT NULL,

order\_id DOUBLE NOT NULL

)

;

ALTER TABLE xzz\_orde\_stor ADD CONSTRAINT xzz\_orde\_stor\_pk PRIMARY KEY ( menu\_item\_id );

*-- SQLINES LICENSE FOR EVALUATION USE ONLY*

CREATE TABLE xzz\_order (

order\_id DOUBLE NOT NULL,

order\_date DATETIME NOT NULL,

visitor\_id DOUBLE NOT NULL

)

;

ALTER TABLE xzz\_order ADD CONSTRAINT xzz\_order\_pk PRIMARY KEY ( order\_id );

*-- SQLINES LICENSE FOR EVALUATION USE ONLY*

CREATE TABLE xzz\_parking (

parking\_id DOUBLE NOT NULL,

lot VARCHAR(10) NOT NULL,

spot DOUBLE NOT NULL,

time\_in DATETIME NOT NULL,

time\_out DATETIME,

fee DOUBLE NOT NULL,

order\_id DOUBLE NOT NULL

)

;

ALTER TABLE xzz\_parking ADD CONSTRAINT xzz\_parking\_pk PRIMARY KEY ( parking\_id );

*-- SQLINES LICENSE FOR EVALUATION USE ONLY*

CREATE TABLE xzz\_payment (

payment\_id DOUBLE NOT NULL,

payment\_method VARCHAR(15) NOT NULL,

payment\_amount DOUBLE NOT NULL,

name\_on\_card VARCHAR(30),

card\_number DOUBLE,

expiration\_date DATETIME,

cvv DOUBLE,

order\_id DOUBLE NOT NULL

)

;

ALTER TABLE xzz\_payment ADD CONSTRAINT xzz\_payment\_pk PRIMARY KEY ( payment\_id );

*-- SQLINES LICENSE FOR EVALUATION USE ONLY*

CREATE TABLE xzz\_show (

show\_id DOUBLE NOT NULL,

show\_name VARCHAR(50) NOT NULL,

show\_description VARCHAR(100) NOT NULL,

show\_type VARCHAR(15) NOT NULL,

start\_time DATETIME NOT NULL,

end\_time DATETIME NOT NULL,

show\_accessible VARCHAR(3) NOT NULL COMMENT 'Wheelchair',

show\_price DOUBLE NOT NULL

)

;

*/\* Moved to CREATE TABLE*

*COMMENT ON COLUMN xzz\_show.show\_accessible IS*

*'Wheelchair'; \*/*

ALTER TABLE xzz\_show ADD CONSTRAINT xzz\_show\_pk PRIMARY KEY ( show\_id );

*-- SQLINES LICENSE FOR EVALUATION USE ONLY*

CREATE TABLE xzz\_store (

store\_id DOUBLE NOT NULL,

store\_name VARCHAR(255) NOT NULL,

category VARCHAR(20) NOT NULL

)

;

ALTER TABLE xzz\_store ADD CONSTRAINT xzz\_store\_pk PRIMARY KEY ( store\_id );

*-- SQLINES LICENSE FOR EVALUATION USE ONLY*

CREATE TABLE xzz\_ticket (

ticket\_id DOUBLE NOT NULL,

ticket\_method VARCHAR(6) NOT NULL,

visit\_date DATETIME NOT NULL,

ticket\_price DOUBLE NOT NULL,

order\_id DOUBLE NOT NULL,

visitor\_id DOUBLE NOT NULL

)

;

*-- SQLINES LICENSE FOR EVALUATION USE ONLY*

CREATE INDEX xzz\_ticket\_\_idx ON

xzz\_ticket (

visitor\_id

ASC )

;

ALTER TABLE xzz\_ticket ADD CONSTRAINT xzz\_ticket\_pk PRIMARY KEY ( ticket\_id );

*-- SQLINES LICENSE FOR EVALUATION USE ONLY*

CREATE TABLE xzz\_visitor (

visitor\_id DOUBLE NOT NULL,

visitor\_name VARCHAR(60) NOT NULL,

birth\_date DATETIME NOT NULL,

visitor\_type VARCHAR(10) NOT NULL,

address VARCHAR(60),

city VARCHAR(20),

state VARCHAR(20),

zip DOUBLE,

email VARCHAR(60),

phone DOUBLE

)

;

ALTER TABLE xzz\_visitor ADD CONSTRAINT xzz\_visitor\_pk PRIMARY KEY ( visitor\_id );

ALTER TABLE xzz\_attr\_visi

ADD CONSTRAINT xzz\_attr\_visi\_xzz\_attraction\_fk FOREIGN KEY ( attraction\_id )

REFERENCES xzz\_attraction ( attraction\_id )

;

ALTER TABLE xzz\_attr\_visi

ADD CONSTRAINT xzz\_attr\_visi\_xzz\_visitor\_fk FOREIGN KEY ( visitor\_id )

REFERENCES xzz\_visitor ( visitor\_id )

;

ALTER TABLE xzz\_orde\_show

ADD CONSTRAINT xzz\_orde\_show\_xzz\_order\_fk FOREIGN KEY ( order\_id )

REFERENCES xzz\_order ( order\_id )

;

ALTER TABLE xzz\_orde\_show

ADD CONSTRAINT xzz\_orde\_show\_xzz\_show\_fk FOREIGN KEY ( show\_id )

REFERENCES xzz\_show ( show\_id )

;

ALTER TABLE xzz\_orde\_stor

ADD CONSTRAINT xzz\_orde\_stor\_xzz\_order\_fk FOREIGN KEY ( order\_id )

REFERENCES xzz\_order ( order\_id )

;

ALTER TABLE xzz\_orde\_stor

ADD CONSTRAINT xzz\_orde\_stor\_xzz\_store\_fk FOREIGN KEY ( store\_id )

REFERENCES xzz\_store ( store\_id )

;

ALTER TABLE xzz\_order

ADD CONSTRAINT xzz\_order\_xzz\_visitor\_fk FOREIGN KEY ( visitor\_id )

REFERENCES xzz\_visitor ( visitor\_id )

;

ALTER TABLE xzz\_parking

ADD CONSTRAINT xzz\_parking\_xzz\_order\_fk FOREIGN KEY ( order\_id )

REFERENCES xzz\_order ( order\_id )

;

ALTER TABLE xzz\_payment

ADD CONSTRAINT xzz\_payment\_xzz\_order\_fk FOREIGN KEY ( order\_id )

REFERENCES xzz\_order ( order\_id )

;

ALTER TABLE xzz\_ticket

ADD CONSTRAINT xzz\_ticket\_xzz\_order\_fk FOREIGN KEY ( order\_id )

REFERENCES xzz\_order ( order\_id )

;

ALTER TABLE xzz\_ticket

ADD CONSTRAINT xzz\_ticket\_xzz\_visitor\_fk FOREIGN KEY ( visitor\_id )

REFERENCES xzz\_visitor ( visitor\_id )

;

*-- SQLINES DEMO \*\*\* per Data Modeler Summary Report:*

*--*

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### e) CHECK Constraints (MySQL Version)

*/\* Visitor \*/*

CONSTRAINT chk\_visitor\_type CHECK (visitor\_type IN ('Individual', 'Group', 'Member', 'Student'))

*/\* Attraction \*/*

CONSTRAINT chk\_attraction\_type CHECK (attraction\_type IN ('roller coaster', 'water ride', 'dark ride', 'kid ride')),

CONSTRAINT chk\_attraction\_status CHECK (attraction\_status IN ('open', 'closed', 'under maintenance')),

CONSTRAINT chk\_location CHECK (location **REGEXP** '^Lot [A-Z]$')

*/\* Show \*/*

CONSTRAINT chk\_show\_accessible CHECK (show\_accessible IN ('Yes', 'No'))

CONSTRAINT chk\_show\_type CHECK (show\_type IN ('drama', 'musical', 'comedy', 'horror', 'adventure'))

*/\* Store \*/*

CONSTRAINT chk\_category CHECK (category IN ('Food stall', 'Ice cream parlor', 'Restaurant', 'Gift Shop', 'Apparels'))

*/\* Payment \*/*

CONSTRAINT chk\_payment\_method CHECK (payment\_method IN ('Cash', 'Credit', 'Debit'))

CONSTRAINT chk\_payment CHECK (

(payment\_method = 'Cash' AND name\_on\_card **IS** NULL AND card\_number **IS** NULL AND expiration\_date **IS** NULL AND CVV **IS** NULL)

OR (payment\_method IN ('Credit', 'Debit') AND name\_on\_card IS NOT NULL AND card\_number IS NOT NULL AND expiration\_date IS NOT NULL AND CVV IS NOT NULL)

)

*/\* Ticket \*/*

CONSTRAINT chk\_ticket\_method CHECK (ticket\_method IN ('Online', 'Onsite'))

### 

### f) TRIGGERS (MySQL Version)

*-- trigger for update ticket price based on online or onsite*

**DELIMITER** //

CREATE TRIGGER apply\_discount\_Online

BEFORE **INSERT**

ON xzz\_ticket

FOR EACH ROW

BEGIN

IF NEW.ticket\_method = 'Online' THEN

SET NEW.ticket\_price = NEW.ticket\_price \* 0.95;

END IF;

END//

*-- trigger for update ticket price based on child or senior type*

*-- compute by DOB - current date*

CREATE TRIGGER apply\_child\_senior

BEFORE **INSERT**

ON xzz\_ticket

FOR EACH ROW

BEGIN

DECLARE age INT;

SELECT FLOOR(DATEDIFF(NOW(), xzz\_visitor.birth\_date) / 365) INTO age

FROM xzz\_visitor

WHERE xzz\_visitor.visitor\_id = NEW.visitor\_id;

IF age > 60 OR age < 7 THEN

SET NEW.ticket\_price = NEW.ticket\_price \* 0.85;

END IF;

END;

*-- trigger for update ticket price based on member*

CREATE TRIGGER apply\_member\_disc

BEFORE **INSERT** ON xzz\_ticket

FOR EACH ROW

BEGIN

DECLARE visitortype VARCHAR(20);

DECLARE is\_weekend BOOLEAN;

DECLARE num\_visitors INT;

SELECT xzz\_visitor.visitor\_type INTO visitortype

FROM xzz\_visitor

WHERE xzz\_visitor.visitor\_id = NEW.visitor\_id;

SET is\_weekend = **DAYOFWEEK**(NEW.visit\_date) IN (1, 7);

IF visitortype = 'Member' AND **NOT** is\_weekend THEN

SELECT COUNT(\*) INTO num\_visitors

FROM xzz\_ticket t

JOIN xzz\_visitor v ON v.visitor\_id = t.visitor\_id

WHERE v.visitor\_type = 'Member'

AND **NOT** **DAYOFWEEK**(t.visit\_date) IN (1, 7)

AND t.visit\_date = NEW.visit\_date;

IF num\_visitors < 5 THEN

SET NEW.ticket\_price = NEW.ticket\_price \* 0.9;

ELSE

SET NEW.ticket\_price = **CASE**

WHEN NEW.ticket\_id IN (

SELECT id FROM (

SELECT id FROM xzz\_ticket t

JOIN xzz\_visitor v ON v.visitor\_id = t.visitor\_id

WHERE v.visitor\_type = 'Member'

AND **NOT** **DAYOFWEEK**(t.visit\_date) IN (1, 7)

AND t.visit\_date = NEW.visit\_date

ORDER BY t.ticket\_price

LIMIT 5

) AS t5

) THEN NEW.ticket\_price \* 0.9

ELSE NEW.ticket\_price

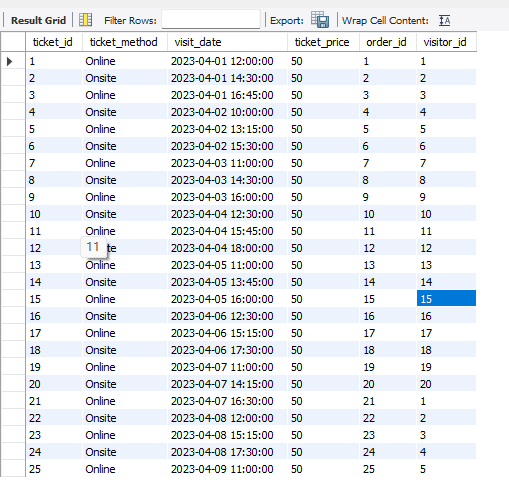
END;

END IF;

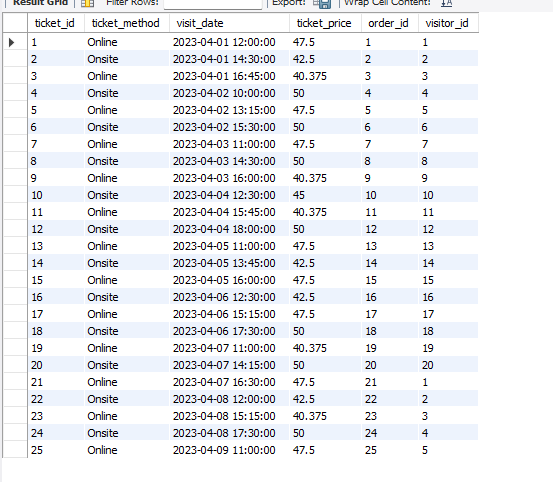
END IF;

END;

Below is the ticket table when we comment out trigger:



After applying trigger, it becomes:



### g) PROCEDURE (MySQL Version)

CREATE PROCEDURE populate\_summary\_table(IN p\_date DATETIME)

BEGIN

DECLARE v\_visitor\_id INT;

DECLARE v\_visitor\_date DATETIME;

DECLARE v\_amount DOUBLE;

DECLARE v\_source VARCHAR(10);

DECLARE v\_source\_id DOUBLE;

*-- create summary table*

CREATE TABLE summary (

visitor\_id DOUBLE NOT NULL,

visitor\_date DATETIME NOT NULL,

amount DOUBLE NOT NULL,

source VARCHAR(10) NOT NULL,

source\_id DOUBLE NOT NULL

);

*-- insert ticket payments into summary table*

INSERT INTO summary(visitor\_id, visitor\_date, amount, source, source\_id)

SELECT t.visitor\_id, t.visit\_date, t.ticket\_price, 'Ticket', t.ticket\_id

FROM xzz\_ticket t

WHERE DATE(t.visit\_date) = DATE(p\_date);

*-- insert show payments into summary table*

INSERT INTO summary(visitor\_id, visitor\_date, amount, source, source\_id)

SELECT v.visitor\_id, sw.start\_time, sw.show\_price, 'Show', sw.show\_id

FROM xzz\_visitor v

JOIN xzz\_ticket t ON t.visitor\_id = v.visitor\_id

JOIN xzz\_order o ON v.visitor\_id = o.visitor\_id

JOIN xzz\_orde\_show os ON o.order\_id = os.order\_id

JOIN xzz\_show sw ON sw.show\_id = os.show\_id

WHERE DATE(sw.start\_time) = DATE(p\_date);

*-- insert store payments into summary table*

INSERT INTO summary (visitor\_id, visitor\_date, amount, source, source\_id)

SELECT v.visitor\_id, t.visit\_date, **SUM**(os.menu\_item\_unit\_price), 'Store', o.order\_id

FROM xzz\_visitor v

JOIN xzz\_ticket t ON t.visitor\_id = v.visitor\_id

JOIN xzz\_order o ON v.visitor\_id = o.visitor\_id

JOIN xzz\_orde\_stor os ON os.order\_id = o.order\_id

JOIN xzz\_store st ON st.store\_id = os.store\_id

WHERE DATE(o.order\_date) = DATE(p\_date)

GROUP BY v.visitor\_id, t.visit\_date, o.order\_id;

*-- insert parking payment into summary table*

INSERT INTO summary(visitor\_id, visitor\_date, amount, source, source\_id)

SELECT v.visitor\_id, p.time\_in, p.fee, 'Parking', p.parking\_id

FROM xzz\_visitor v

JOIN xzz\_ticket t ON t.visitor\_id = v.visitor\_id

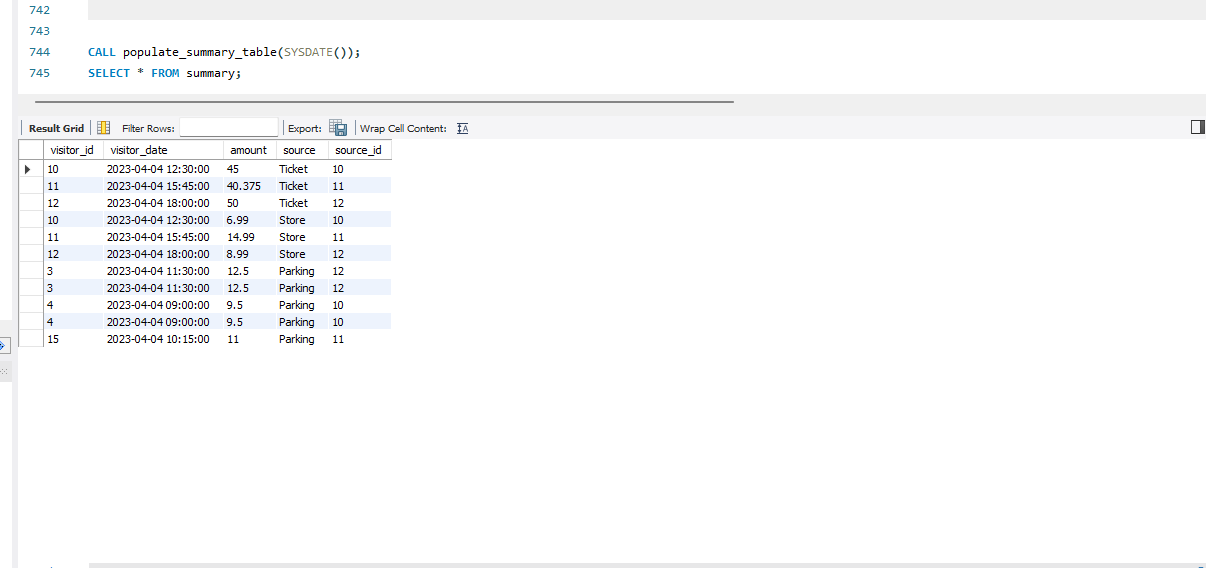
JOIN xzz\_order o ON v.visitor\_id = o.visitor\_id

JOIN xzz\_parking p ON P.order\_id = o.order\_id

WHERE DATE(p.time\_in) = DATE(p\_date);

*-- Assume that the parking time in is the date to match*

END;

The summary table looks like this:  
  


### h) Mock Data (MySQL Version)

*/\* Visitor \*/*

INSERT INTO xzz\_visitor (visitor\_id, visitor\_name, birth\_date, visitor\_type, address, city, state, zip, email, phone)

VALUES

(1, 'John Smith', '1975-06-30', 'Individual', '123 Main St', 'Anytown', 'CA', 12345, 'john.smith@example.com', 5551234567),

(2, 'Jane Doe', '1900-01-15', 'Individual', '456 Elm St', 'Anycity', 'NY', 67890, 'jane.doe@example.com', 5552345678),

(3, 'David Johnson', '1957-08-10', 'Individual', '789 Oak St', 'Anystate', 'TX', 34567, 'david.johnson@example.com', 5553456789),

(4, 'Emma Thompson', '2001-05-20', 'Student', '321 Maple Ave', 'Anothercity', 'FL', 23456, 'emma.thompson@example.com', 5554567890),

(5, 'Oliver Davis', '2015-12-01', 'Member', '654 Cedar St', 'Somecity', 'IL', 45678, 'oliver.davis@example.com', 5555678901),

(6, 'Sophie Wilson', '1982-02-14', 'Individual', '987 Pine St', 'Anotherstate', 'MI', 56789, 'sophie.wilson@example.com', 5556789012),

(7, 'Liam Baker', '2008-10-05', 'Student', '246 Oak Ave', 'Anothercity', 'MA', 67890, 'liam.baker@example.com', 5557890123),

(8, 'Ava Mitchell', '2010-03-27', 'Student', '369 Elm St', 'Somestate', 'PA', 78901, 'ava.mitchell@example.com', 5558901234),

(9, 'Noah Brown', '2016-07-15', 'Child', '753 Maple St', 'Somewhere', 'OH', 89012, 'noah.brown@example.com', 5559012345),

(10, 'Isabella Davis', '2005-11-28', 'Member', '852 Pine Ave', 'Anycity', 'VA', 90123, 'isabella.davis@example.com', 5550123456),

(11, 'William Taylor', '1940-03-01', 'Individual', '963 Oak St', 'Somewhere', 'OR', 23456, 'william.taylor@example.com', 5551234567),

(12, 'Sophia Wilson', '1998-09-17', 'Student', '741 Maple Ave', 'Anycity', 'WA', 34567, 'sophia.wilson@example.com', 5552345678),

(13, 'Logan Thomas', '2012-06-22', 'Child', '852 Cedar St', 'Anothercity', 'NJ', 45678, 'logan.thomas@example.com', 5553456789),

(14, 'Mia Lee', '2018-01-10', 'Child', '159 Oak Ave', 'Somestate', 'MD', 56789, 'mia.lee@example.com', 5554567890),

(15, 'Ethan Brown', '2006-04-15', 'Student', '753 Pine St', 'Somewhere', 'TX', 67890, 'ethan.brown@example.com', 5555678901),

(16, 'Madison Garcia', '1955-11-30', 'Individual', '369 Maple St', 'Anystate', 'GA', 78901, 'madison.garcia@example.com', 5556789012),

(17, 'Jacob Hernandez', '2011-08-18', 'Child', '963 Elm Ave', 'Somewhere', 'CA', 89012, 'jacob.hernandez@example.com', 5557890123),

(18, 'Abigail Martinez', '2014-01-02', 'Child', '852 Pine St', 'Anothercity', 'NY', 90123, 'abigail.martinez@example.com', 5558901234),

(19, 'Michael Rodriguez', '1952-12-24', 'Individual', '753 Cedar St', 'Anycity', 'MA', 12345, 'michael.rodriguez@example.com', 5559012345),

(20, 'Emily Young', '2000-05-10', 'Student', '369 Oak Ave', 'Somestate', 'PA', 23456, 'emily.young@example.com', 5550123456),

(21, 'Daniel Scott', '2013-02-14', 'Child', '852 Pine Ave', 'Anothercity', 'VA', 34567, 'daniel.scott@example.com', 5551234567),

(22, 'Madison Perez', '2019-09-17', 'Child', '159 Cedar St', 'Somewhere', 'OH', 45678, 'madison.perez@example.com', 5552345678),

(23, 'Aiden Roberts', '2010-06-22', 'Student', '753 Oak St', 'Anycity', 'WA', 56789, 'aiden.roberts@example.com', 5553456789),

(24, 'Samantha Turner', '1945-01-10', 'Individual', '369 Maple Ave', 'Somestate', 'NJ', 67890, 'samantha.turner@example.com', 5554567890),

(25, 'Alexander Phillips', '1960-04-15', 'Individual', '963 Pine St', 'Anycity', 'MD', 78901, 'alexander.phillips@example.com', 5555678901);

*/\* Attraction \*/*

INSERT INTO xzz\_attraction (attraction\_id, attraction\_name, attraction\_description, attraction\_type, attraction\_status, capacity, min\_height, duration, location)

VALUES

(1, 'The Beast', 'The longest wooden roller coaster in the world', 'roller coaster', 'open', 36, 137, 4, 'Lot A'),

(2, 'Jurassic Park River Adventure', 'A thrilling water ride through a prehistoric jungle', 'water ride', 'open', 20, 107, 5, 'Lot A'),

(3, 'Haunted Mansion', 'A spooky dark ride through a haunted house', 'dark ride', 'closed', 16, 91, 3, 'Lot B'),

(4, 'Dumbo the Flying Elephant', 'A gentle kid ride that lets guests soar through the air on a magical elephant', 'kid ride', 'open', 32, 76, 2, 'Lot B'),

(5, 'Millennium Force', 'One of the tallest and fastest roller coasters in the world', 'roller coaster', 'under maintenance', 24, 142, 3, 'Lot C'),

(6, 'Pirates of the Caribbean', 'A classic dark ride that takes guests on a journey through a pirate-infested Caribbean', 'dark ride', 'open', 12, 107, 4, 'Lot C'),

(7, 'Splash Mountain', 'A thrilling water ride that culminates in a huge drop into a briar patch', 'water ride', 'open', 18, 102, 6, 'Lot D'),

(8, 'Sesame Street Safari of Fun', 'A colorful kid ride featuring all of your favorite Sesame Street characters', 'kid ride', 'open', 30, 61, 2, 'Lot D'),

(9, 'Kingda Ka', 'The tallest and fastest roller coaster in the world', 'roller coaster', 'closed', 20, 139, 2, 'Lot E'),

(10, 'Its a Small World', 'A charming dark ride that takes guests on a musical journey around the world', 'dark ride', 'open', 24, 91, 8, 'Lot E'),

(11, 'The Hulk', 'A thrilling roller coaster that takes guests through a series of twists, turns, and inversions', 'roller coaster', 'open', 30, 137, 3, 'Lot F'),

(12, 'Kali River Rapids', 'A wet and wild water ride through the heart of the jungle', 'water ride', 'under maintenance', 16, 107, 4, 'Lot F'),

(13, 'Toy Story Midway Mania!', 'A fun-filled ride that lets guests compete in carnival', 'kid ride', 'open', 24, 91, 5, 'Lot G'),

(14, 'Expedition Everest', 'A thrilling roller coaster that takes guests on a journey through the Himalayas', 'roller coaster', 'open', 20, 122, 4, 'Lot G'),

(15, 'Harry Potter and the Forbidden Journey', 'A magical dark ride that takes guests on a journey through the world of Harry Potter', 'dark ride', 'closed', 12, 122, 5, 'Lot H'),

(16, 'The Cat in the Hat', 'A whimsical kid ride that lets guests join the Cat in the Hat', 'kid ride', 'open', 32, 76, 2, 'Lot H'),

(17, 'The Incredible Hulk Coaster', 'A thrilling roller coaster that takes guests through a series of high-speed inversions and twists', 'roller coaster', 'under maintenance', 30, 137, 3, 'Lot I'),

(18, 'Journey to Atlantis', 'A water ride that takes guests on a journey through', 'water ride', 'open', 18, 107, 5, 'Lot I'),

(19, 'Peter Pan''s Flight', 'A classic dark ride that takes guests on a journey through the world of Peter Pan', 'dark ride', 'open', 12, 91, 3, 'Lot J'),

(20, 'Flying Fish', 'A gentle kid ride that lets guests soar through the air on colorful fish', 'kid ride', 'open', 24, 76, 2, 'Lot J'),

(21, 'Top Thrill Dragster', 'A record-breaking roller coaster that launches riders from 0 to 120 mph in just a few seconds', 'roller coaster', 'open', 20, 137, 1, 'Lot K'),

(22, 'Raging Rapids', 'A wild water ride that takes guests through turbulent rapids and cascading waterfalls', 'water ride', 'closed', 16, 107, 4, 'Lot K'),

(23, 'Transformers: The Ride 3D', 'A thrilling dark ride that puts guests in the middle of', 'dark ride', 'open', 12, 107, 4, 'Lot L'),

(24, 'The Magic Carpets of Aladdin', 'A fun kid ride that lets guests fly through the air on magical carpets', 'kid ride', 'open', 32, 76, 2, 'Lot L'),

(25, 'Steel Vengeance', 'A record-breaking roller coaster that features a wooden and steel hybrid track', 'roller coaster', 'open', 24, 137, 2, 'Lot M');

*/\* Show \*/*

INSERT INTO xzz\_show (show\_id, show\_name, show\_description, show\_type, start\_time, end\_time, show\_accessible, show\_price)

VALUES

(1, 'The Phantom of the Opera', 'A classic musical about a mysterious masked man and his obsession with a young soprano', 'musical', '2023-04-05 19:30:00', '2023-04-05 22:00:00', 'Yes', 100.00),

(2, 'Hamlet', 'One of Shakespeare''s most famous plays about a young prince who seeks revenge against his uncle', 'drama', '2023-04-06 19:30:00', '2023-04-06 22:00:00', 'No', 75.00),

(3, 'The Lion King', 'A beloved musical about a young lion cub''s journey to become king of the Pride Lands', 'musical', '2023-04-07 14:00:00', '2023-04-07 16:30:00', 'Yes', 125.00),

(4, 'The Addams Family', 'A hilarious comedy about everyone''s favorite spooky family', 'comedy', '2023-04-08 20:00:00', '2023-04-08 22:30:00', 'Yes', 90.00),

(5, 'Sweeney Todd: The Demon Barber of Fleet Street', 'A dark and thrilling musical about a vengeful barber and his quest for revenge', 'musical', '2023-04-09 19:00:00', '2023-04-09 22:30:00', 'Yes', 110.00),

(6, 'The Crucible', 'A powerful drama about the Salem witch trials and the hysteria that gripped a community', 'drama', '2023-04-10 18:00:00', '2023-04-10 20:30:00', 'No', 80.00),

(7, 'Wicked', 'A magical musical that tells the untold story of the witches of Oz', 'musical', '2023-04-11 14:00:00', '2023-04-11 17:00:00', 'Yes', 130.00),

(8, 'The Book of Mormon', 'A hilarious and irreverent musical about two young missionaries who are sent to Uganda', 'musical', '2023-04-12 19:30:00', '2023-04-12 22:00:00', 'No', 95.00),

(9, 'Death of a Salesman', 'A classic drama about an aging salesman who struggles to cope with his life and career', 'drama', '2023-04-13 20:00:00', '2023-04-13 22:30:00', 'Yes', 85.00),

(10, 'The Rocky Horror Picture Show', 'A cult classic musical about a couple who stumble upon a strange castle', 'musical', '2023-04-14 23:00:00', '2023-04-15 01:00:00', 'No', 70.00),

(11, 'The Exorcist', 'A terrifying horror show about a young girl possessed by a demon', 'horror', '2023-04-15 22:00:00', '2023-04-15 23:00:00','Yes', 120.00),

(12, 'The Importance of Being Earnest', 'A witty and humorous comedy of manners about two young men who assume false identities', 'comedy', '2023-04-16 15:00:00', '2023-04-16 17:30:00', 'Yes', 95.00),

(13, 'Cats', 'A beloved musical about a tribe of cats who gather for their annual Jellicle Ball', 'musical', '2023-04-17 14:00:00', '2023-04-17 16:30:00', 'Yes', 110.00),

(14, 'Dracula', 'A thrilling horror show about the legendary vampire and his encounters with the living', 'horror', '2023-04-18 20:00:00', '2023-04-18 22:30:00', 'No', 80.00),

(15, 'The Sound of Music', 'A timeless musical about a young woman who becomes a governess to a large family and falls in love', 'musical', '2023-04-19 19:30:00', '2023-04-19 22:00:00', 'Yes', 125.00),

(16, 'A Midsummer Night''s Dream', 'One of Shakespeare''s most popular plays about the adventures of young lovers in a magical forest', 'comedy', '2023-04-20 18:00:00', '2023-04-20 20:30:00', 'Yes', 90.00),

(17, 'Jekyll and Hyde', 'A dark and thrilling musical about a scientist who discovers a potion that unleashes his darker side', 'musical', '2023-04-21 19:00:00', '2023-04-21 22:00:00', 'No', 100.00),

(18, 'The Great Gatsby', 'A dramatic adaptation of F. Scott Fitzgerald''s iconic novel about the excesses of the Jazz Age', 'drama', '2023-04-22 20:00:00', '2023-04-22 22:30:00', 'Yes', 85.00),

(19, 'Little Shop of Horrors', 'A zany musical about a down-on-his-luck florist who discovers a plant with a taste for human blood', 'musical', '2023-04-23 14:00:00', '2023-04-23 16:30:00', 'Yes', 95.00),

(20, 'A Streetcar Named Desire', 'A powerful drama about a southern belle who moves in with her sister and her brutish husband', 'drama', '2023-04-24 19:30:00', '2023-04-24 22:00:00', 'Yes', 90.00),

(21, 'The Rocky Horror Show', 'A live stage production of the cult classic musical about a couple', 'musical', '2023-04-25 23:00:00', '2023-04-26 01:00:00', 'No', 70.00),

(22, 'Carrie', 'A chilling horror show about a high school student with telekinetic powers', 'horror','2023-04-26 20:00:00', '2023-04-26 22:30:00', 'Yes', 80.00),

(23, 'The Importance of Being Earnest', 'A witty and humorous comedy of manners about two young men who assume false identities', 'comedy', '2023-04-27 15:00:00', '2023-04-27 17:30:00', 'Yes', 95.00),

(24, 'Les Misérables', 'A legendary musical about a former convict who seeks redemption in 19th century France', 'musical', '2023-04-28 19:30:00', '2023-04-28 22:30:00', 'Yes', 130.00),

(25, 'The Glass Menagerie', 'A poignant drama about a family struggling to come to terms with their past and their present', 'drama', '2023-04-29 20:00:00', '2023-04-29 22:30:00', 'Yes', 85.00);

*/\* Store \*/*

INSERT INTO xzz\_store (store\_id, store\_name, category)

VALUES

(1, 'Taco Bell', 'Food stall'),

(2, 'Baskin Robbins', 'Ice cream parlor'),

(3, 'Olive Garden', 'Restaurant'),

(4, 'Hallmark', 'Gift Shop'),

(5, 'Zara', 'Apparels'),

(6, 'Subway', 'Food stall'),

(7, 'Cold Stone Creamery', 'Ice cream parlor'),

(8, 'Red Lobster', 'Restaurant'),

(9, 'Barnes & Noble', 'Gift Shop'),

(10, 'H&M', 'Apparels'),

(11, 'McDonalds', 'Food stall'),

(12, 'Dairy Queen', 'Ice cream parlor'),

(13, 'Outback Steakhouse', 'Restaurant'),

(14, 'Spencer Gifts', 'Gift Shop'),

(15, 'Nike', 'Apparels'),

(16, 'Pizza Hut', 'Food stall'),

(17, 'Ben & Jerry''s', 'Ice cream parlor'),

(18, 'Cheesecake Factory', 'Restaurant'),

(19, 'Disney Store', 'Gift Shop'),

(20, 'Forever 21', 'Apparels'),

(21, 'KFC', 'Food stall'),

(22, 'Haagen-Dazs', 'Ice cream parlor'),

(23, 'Panera Bread', 'Restaurant'),

(24, 'Yankee Candle', 'Gift Shop'),

(25, 'Adidas', 'Apparels');

*/\* Order \*/*

INSERT INTO xzz\_order (order\_id, order\_date, visitor\_id)

VALUES

(1, '2023-04-01 12:00:00', 1),

(2, '2023-04-01 14:30:00', 2),

(3, '2023-04-01 16:45:00', 3),

(4, '2023-04-02 10:00:00', 4),

(5, '2023-04-02 13:15:00', 5),

(6, '2023-04-02 15:30:00', 6),

(7, '2023-04-03 11:00:00', 7),

(8, '2023-04-03 14:30:00', 8),

(9, '2023-04-03 16:00:00', 9),

(10, '2023-04-04 12:30:00', 10),

(11, '2023-04-04 15:45:00', 11),

(12, '2023-04-04 18:00:00', 12),

(13, '2023-04-05 11:00:00', 13),

(14, '2023-04-05 13:45:00', 14),

(15, '2023-04-05 16:00:00', 15),

(16, '2023-04-06 12:30:00', 16),

(17, '2023-04-06 15:15:00', 17),

(18, '2023-04-06 17:30:00', 18),

(19, '2023-04-07 11:00:00', 19),

(20, '2023-04-07 14:15:00', 20),

(21, '2023-04-07 16:30:00', 1),

(22, '2023-04-08 12:00:00', 2),

(23, '2023-04-08 15:15:00', 3),

(24, '2023-04-08 17:30:00', 4),

(25, '2023-04-09 11:00:00', 5);

*/\* Payment \*/*

*/\* Amount needs to be refined \*/*

INSERT INTO xzz\_payment (payment\_id, payment\_method, payment\_amount, name\_on\_card, card\_number, expiration\_date, cvv, order\_id)

VALUES

(1, 'Cash', 50.00, NULL, NULL, NULL, NULL, 1),

(2, 'Cash', 75.00, NULL, NULL, NULL, NULL, 2),

(3, 'Cash', 100.00, NULL, NULL, NULL, NULL, 3),

(4, 'Credit', 125.00, 'John Doe', 1234567890123456, '2024-12-31 23:59:59', 123, 4),

(5, 'Credit', 150.00, 'Jane Smith', 9876543210987654, '2025-06-30 23:59:59', 456, 5),

(6, 'Debit', 175.00, 'Bob Johnson', 1111222233334444, '2023-03-31 23:59:59', 789, 6),

(7, 'Cash', 80.00, NULL, NULL, NULL, NULL, 7),

(8, 'Credit', 90.00, 'Alice Davis', 5555666677778888, '2025-09-30 23:59:59', 234, 8),

(9, 'Debit', 110.00, 'Sarah Wilson', 4444333322221111, '2024-08-31 23:59:59', 567, 9),

(10, 'Cash', 70.00, NULL, NULL, NULL, NULL, 10),

(11, 'Credit', 120.00, 'Mark Thompson', 8888777766665555, '2023-11-30 23:59:59', 890, 11),

(12, 'Debit', 95.00, 'Karen Brown', 7777666655554444, '2024-05-31 23:59:59', 123, 12),

(13, 'Cash', 60.00, NULL, NULL, NULL, NULL, 13),

(14, 'Credit', 130.00, 'David Lee', 2222333344445555, '2025-02-28 23:59:59', 456, 14),

(15, 'Debit', 85.00, 'Michael Nguyen', 3333444455556666, '2023-10-31 23:59:59', 789, 15),

(16, 'Cash', 55.00, NULL, NULL, NULL, NULL, 16),

(17, 'Credit', 95.00, 'Mary Kim', 6666555577778888, '2023-06-30 23:59:59', 234, 17),

(18, 'Debit', 120.00, 'Emily Chen', 7777888899990000, '2024-04-30 23:59:59', 567, 18),

(19, 'Cash', 65.00, NULL, NULL, NULL, NULL, 19),

(20, 'Credit', 110.00, 'Ryan Lee', 4444555566667777, '2024-12-31 23:59:59', 890, 20),

(21, 'Debit', 75.00, 'Erica Chen', 9999888877776666, '2025-01-31 23:59:59', 123, 1),

(22, 'Cash', 90.00, NULL, NULL, NULL, NULL, 2),

(23, 'Credit', 105.00, 'Steven Chang', 1111222233334444, '2023-08-31 23:59:59', 456, 3),

(24, 'Debit', 80.00, 'Linda Wang', 5555666677778888, '2024-06-30 23:59:59', 789, 4),

(25, 'Cash', 100.00, NULL, NULL, NULL, NULL, 5);

*/\* Ticket \*/*

INSERT INTO xzz\_ticket (ticket\_id, ticket\_method, visit\_date, ticket\_price, order\_id, visitor\_id)

VALUES

(1, 'Online', '2023-04-01 12:00:00', 50.00, 1, 1),

(2, 'Onsite', '2023-04-01 14:30:00', 50.00, 2, 2),

(3, 'Online', '2023-04-01 16:45:00', 50.00, 3, 3),

(4, 'Onsite', '2023-04-02 10:00:00', 50.00, 4, 4),

(5, 'Online', '2023-04-02 13:15:00', 50.00, 5, 5),

(6, 'Onsite', '2023-04-02 15:30:00', 50.00, 6, 6),

(7, 'Online', '2023-04-03 11:00:00', 50.00, 7, 7),

(8, 'Onsite', '2023-04-03 14:30:00', 50.00, 8, 8),

(9, 'Online', '2023-04-03 16:00:00', 50.00, 9, 9),

(10, 'Onsite', '2023-04-04 12:30:00', 50.00, 10, 10),

(11, 'Online', '2023-04-04 15:45:00', 50.00, 11, 11),

(12, 'Onsite', '2023-04-04 18:00:00', 50.00, 12, 12),

(13, 'Online', '2023-04-05 11:00:00', 50.00, 13, 13),

(14, 'Onsite', '2023-04-05 13:45:00', 50.00, 14, 14),

(15, 'Online', '2023-04-05 16:00:00', 50.00, 15, 15),

(16, 'Onsite', '2023-04-06 12:30:00', 50.00, 16, 16),

(17, 'Online', '2023-04-06 15:15:00', 50.00, 17, 17),

(18, 'Onsite', '2023-04-06 17:30:00', 50.00, 18, 18),

(19, 'Online', '2023-04-07 11:00:00', 50.00, 19, 19),

(20, 'Onsite', '2023-04-07 14:15:00', 50.00, 20, 20),

(21, 'Online', '2023-04-07 16:30:00', 50.00, 21, 1),

(22, 'Onsite', '2023-04-08 12:00:00', 50.00, 22, 2),

(23, 'Online', '2023-04-08 15:15:00', 50.00, 23, 3),

(24, 'Onsite', '2023-04-08 17:30:00', 50.00, 24, 4),

(25, 'Online', '2023-04-09 11:00:00', 50.00, 25, 5);

*/\* Parking \*/*

INSERT INTO xzz\_parking (parking\_id, lot, spot, time\_in, time\_out, fee, order\_id)

VALUES

(1, 'Lot A', 1, '2023-04-01 10:00:00', '2023-04-01 15:30:00', 10.00, 6),

(2, 'Lot B', 2, '2023-04-01 11:30:00', '2023-04-01 16:45:00', 12.50, 16),

(3, 'Lot C', 3, '2023-04-01 12:15:00', '2023-04-01 17:15:00', 13.50, 11),

(4, 'Lot D', 4, '2023-04-02 09:30:00', '2023-04-02 14:45:00', 9.00, 19),

(5, 'Lot A', 5, '2023-04-02 10:45:00', '2023-04-02 15:30:00', 11.50, 5),

(6, 'Lot B', 6, '2023-04-02 12:00:00', '2023-04-02 17:00:00', 13.00, 23),

(7, 'Lot C', 7, '2023-04-03 10:00:00', '2023-04-03 15:15:00', 10.50, 13),

(8, 'Lot D', 8, '2023-04-03 11:15:00', '2023-04-03 16:30:00', 12.00, 21),

(9, 'Lot A', 9, '2023-04-03 12:30:00', '2023-04-03 17:45:00', 14.00, 10),

(10, 'Lot B', 10, '2023-04-04 09:00:00', '2023-04-04 14:30:00', 9.50, 24),

(11, 'Lot C', 11, '2023-04-04 10:15:00', '2023-04-04 15:00:00', 11.00, 15),

(12, 'Lot D', 12, '2023-04-04 11:30:00', '2023-04-04 16:45:00', 12.50, 3),

(13, 'Lot A', 13, '2023-04-05 10:00:00', '2023-04-05 15:00:00', 10.00, 9),

(14, 'Lot B', 14, '2023-04-05 11:30:00', '2023-04-05 16:15:00', 11.50, 18),

(15, 'Lot C', 15, '2023-04-05 12:45:00', '2023-04-05 17:30:00', 13.00, 1),

(16, 'Lot D', 16, '2023-04-06 09:30:00', '2023-04-06 14:45:00', 9.00, 8),

(17, 'Lot A', 17, '2023-04-06 10:45:00', '2023-04-06 15:30:00', 11.50, 4),

(18, 'Lot B', 18, '2023-04-06 12:00:00', '2023-04-06 17:00:00', 13.00, 22),

(19, 'Lot C', 19, '2023-04-07 10:00:00', '2023-04-07 15:15:00', 10.50, 12),

(20, 'Lot D', 20, '2023-04-07 11:15:00', '2023-04-07 16:30:00', 12.00, 25),

(21, 'Lot A', 21, '2023-04-07 12:30:00', '2023-04-07 17:45:00', 14.00, 17),

(22, 'Lot B', 22, '2023-04-08 09:00:00', '2023-04-08 14:30:00', 9.50, 20),

(23, 'Lot C', 23, '2023-04-08 10:15:00', '2023-04-08 15:00:00', 11.00, 2),

(24, 'Lot D', 24, '2023-04-08 11:30:00', '2023-04-08 16:45:00', 12.50, 14),

(25, 'Lot A', 25, '2023-04-09 10:00:00', '2023-04-09 15:00:00', 10.00, 7);

*/\* xzz\_attr\_visi \*/*

INSERT INTO xzz\_attr\_visi (r\_id, r\_in\_time, visitor\_id, attraction\_id)

VALUES

(1, '2023-04-01 10:00:00', 3, 6),

(2, '2023-04-01 11:30:00', 16, 17),

(3, '2023-04-01 12:15:00', 11, 7),

(4, '2023-04-02 09:30:00', 19, 16),

(5, '2023-04-02 10:45:00', 5, 2),

(6, '2023-04-02 12:00:00', 23, 14),

(7, '2023-04-03 10:00:00', 13, 22),

(8, '2023-04-03 11:15:00', 21, 3),

(9, '2023-04-03 12:30:00', 10, 5),

(10, '2023-04-04 09:00:00', 24, 15),

(11, '2023-04-04 10:15:00', 15, 4),

(12, '2023-04-04 11:30:00', 3, 21),

(13, '2023-04-05 10:00:00', 9, 9),

(14, '2023-04-05 11:30:00', 18, 20),

(15, '2023-04-05 12:45:00', 1, 19),

(16, '2023-04-06 09:30:00', 8, 3),

(17, '2023-04-06 10:45:00', 4, 7),

(18, '2023-04-06 12:00:00', 22, 13),

(19, '2023-04-07 10:00:00', 12, 10),

(20, '2023-04-07 11:15:00', 25, 22),

(21, '2023-04-07 12:30:00', 17, 12),

(22, '2023-04-08 09:00:00', 20, 14),

(23, '2023-04-08 10:15:00', 2, 1),

(24, '2023-04-08 11:30:00', 14, 4),

(25, '2023-04-09 10:00:00', 7, 5),

(26, '2023-04-01 14:00:00', 1, 22),

(27, '2023-04-02 16:00:00', 2, 20),

(28, '2023-04-03 13:00:00', 3, 17),

(29, '2023-04-04 15:00:00', 4, 12),

(30, '2023-04-05 11:00:00', 5, 11),

(31, '2023-04-06 13:30:00', 6, 19),

(32, '2023-04-07 16:00:00', 7, 23),

(33, '2023-04-08 14:00:00', 8, 8),

(34, '2023-04-09 12:00:00', 9, 2),

(35, '2023-04-01 15:30:00', 10, 16);

*/\* xzz\_orde\_show \*/*

INSERT INTO xzz\_orde\_show (os\_id, show\_id, order\_id)

VALUES

(1, 12, 9),

(2, 18, 23),

(3, 10, 1),

(4, 20, 16),

(5, 15, 12),

(6, 6, 11),

(7, 8, 13),

(8, 2, 8),

(9, 24, 14),

(10, 23, 2),

(11, 14, 3),

(12, 25, 6),

(13, 21, 19),

(14, 9, 20),

(15, 4, 4),

(16, 7, 5),

(17, 11, 21),

(18, 16, 18),

(19, 17, 7),

(20, 1, 10),

(21, 19, 25),

(22, 22, 15),

(23, 13, 24),

(24, 5, 22),

(25, 3, 17),

(26, 16, 24),

(27, 9, 2),

(28, 20, 11),

(29, 23, 8),

(30, 11, 16),

(31, 8, 14),

(32, 19, 1),

(33, 2, 10),

(34, 6, 25),

(35, 1, 13);

*/\* xzz\_orde\_stor \*/*

INSERT INTO xzz\_orde\_stor (menu\_item\_id, menu\_item\_name, menu\_item\_description, menu\_item\_unit\_price, store\_id, order\_id) VALUES

(1, 'Cheeseburger', 'Juicy beef patty topped with melted cheese and served on a toasted bun with lettuce and tomato', 9.99, 3, 14),

(2, 'Chicken Caesar Salad', 'Grilled chicken breast, crisp romaine lettuce', 8.49, 16, 20),

(3, 'Margherita Pizza', 'Traditional pizza topped with tomato sauce, mozzarella cheese, and fresh basil leaves', 12.99, 11, 22),

(4, 'French Fries', 'Crispy golden fries served with ketchup or your choice of dipping sauce', 4.99, 5, 19),

(5, 'Fish and Chips', 'Beer-battered fish and crispy fries, served with tartar sauce and lemon wedges', 11.99, 9, 23),

(6, 'Spaghetti Bolognese', 'Hearty meat sauce served over a bed of al dente spaghetti noodles', 10.99, 12, 2),

(7, 'BBQ Chicken Wings', 'Crispy chicken wings glazed with sweet and tangy BBQ sauce', 7.99, 18, 3),

(8, 'Vegetable Stir-Fry', 'Assorted fresh vegetables stir-fried with your choice of protein in a savory sauce', 9.49, 22, 15),

(9, 'Beef Tacos', 'Three soft-shell tacos filled with seasoned ground beef, lettuce, cheese, and salsa', 10.99, 4, 9),

(10, 'Roasted Chicken', 'Tender roasted chicken served with your choice of side dish and gravy', 13.99, 17, 18),

(11, 'Chocolate Brownie', 'Warm and gooey chocolate brownie served with vanilla ice cream', 6.99, 6, 10),

(12, 'Caesar Salad', 'Crisp romaine lettuce, garlic croutons, and Parmesan cheese tossed with creamy Caesar dressing', 7.99, 19, 21),

(13, 'Pesto Pasta', 'Penne pasta tossed with homemade basil pesto sauce and Parmesan cheese', 11.49, 2, 25),

(14, 'Cheese Pizza', 'Traditional pizza topped with tomato sauce and mozzarella cheese', 10.99, 8, 6),

(15, 'Mushroom Risotto', 'Creamy risotto with sautéed mushrooms and Parmesan cheese', 12.99, 24, 1),

(16, 'Hamburger', 'Juicy beef patty served on a toasted bun with lettuce and tomato', 8.99, 7, 12),

(17, 'Caesar Grilled Shrimp', 'Grilled shrimp, crisp romaine lettuce', 12.49, 21, 17),

(18, 'Onion Rings', 'Crispy fried onion rings served with your choice of dipping sauce', 5.99, 14, 4),

(19, 'Fish Tacos', 'Three soft-shell tacos filled with grilled fish, lettuce, cheese, and salsa', 12.99, 20, 24),

(20, 'Lemon Chicken','Grilled chicken breast topped with lemon butter sauce and served with your choice of side dish', 11.99, 15, 16),

(21, 'Pesto Chicken Pizza', 'Traditional pizza topped with basil pesto sauce, mozzarella cheese, and grilled chicken', 13.49, 10, 8),

(22, 'Beef Stir-Fry', 'Tender strips of beef stir-fried with fresh vegetables in a savory sauce', 12.99, 13, 7),

(23, 'Chicken Parmesan', 'Breaded chicken breast topped with marinara sauce and melted mozzarella cheese', 14.99, 1, 11),

(24, 'Greek Salad', 'Crisp lettuce, juicy tomatoes, cucumbers, red onion, Kalamata olives', 9.99, 23, 13),

(25, 'Spicy Buffalo Wings', 'Crispy chicken wings coated in spicy buffalo sauce', 8.99, 25, 5),

(26, 'Grilled Salmon', 'Fresh salmon fillet grilled to perfection and served with your choice of side dish', 15.99, 9, 24),

(27, 'Vegetable Pizza', 'Traditional pizza topped with tomato sauce, mozzarella cheese, and assorted fresh vegetables', 12.99, 2, 14),

(28, 'Shrimp Scampi', 'Sauteed shrimp tossed with garlic, butter, lemon juice, and white wine', 16.49, 18, 6),

(29, 'Crispy Chicken Sandwich', 'Crispy fried chicken breast served on a toasted bun with lettuce, tomato, and mayo', 9.99, 5, 20),

(30, 'Caprese Salad', 'Fresh mozzarella cheese, ripe tomatoes, and fresh basil leaves drizzled with balsamic glaze', 8.99, 7, 19),

(31, 'Beef and Broccoli Stir-Fry', 'Tender strips of beef and fresh broccoli florets stir-fried in a savory sauce', 11.99, 12, 3),

(32, 'Fettuccine Alfredo', 'Creamy Alfredo sauce tossed with fettuccine noodles and Parmesan cheese', 10.99, 16, 15),

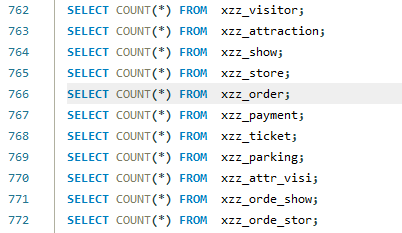
(33, 'Chicken Fajitas', 'Sizzling hot chicken fajitas served with warm tortillas, guacamole, sour cream, and salsa', 13.99, 21, 2),

(34, 'Caesar Grilled Chicken', 'Grilled chicken breast, crisp romaine lettuce', 10.49, 24, 18),

(35, 'Margarita', 'Classic tequila-based cocktail made with lime juice and triple sec, served with salt on the rim', 7.99, 3, 9);

### 

### i) COUNT Query (MySQL Version)



| **Table\_NAME** | **Query\_Result** |
| --- | --- |
| XZZ\_ATTRACTION | 25 |
| XZZ\_ATTR\_VISI | 35 |
| XZZ\_ORDER | 25 |
| XZZ\_ORDE\_SHOW | 35 |
| XZZ\_ORDE\_STOR | 35 |
| XZZ\_PARKING | 25 |
| XZZ\_PAYMENT | 25 |
| XZZ\_SHOW | 25 |
| XZZ\_STORE | 25 |
| XZZ\_TICKET | 25 |
| XZZ\_VISITOR | 25 |

### 

### j) Dictionary Query (MySQL Version)

TABLES:

Data Dictionary Query:

SELECT object\_name, object\_type FROM USER\_OBJECTS

Result:

| OBJECT\_NAME | OBJECT\_TYPE |
| --- | --- |
| XZZ\_ATTRACTION | TABLE |
| XZZ\_ATTR\_VISI | TABLE |
| XZZ\_ORDER | TABLE |
| XZZ\_ORDE\_SHOW | TABLE |
| XZZ\_ORDE\_STOR | TABLE |
| XZZ\_PARKING | TABLE |
| XZZ\_PAYMENT | TABLE |
| XZZ\_SHOW | TABLE |
| XZZ\_STORE | TABLE |
| XZZ\_TICKET | TABLE |
| XZZ\_VISITOR | TABLE |

COLUMNS:

Data Dictionary Query:

SELECT

TABLE\_NAME, COLUMN\_NAME, DATA\_TYPE, DATA\_LENGTH,NULLABLE

FROM USER\_TAB\_COLS

Result:

| TABLE\_NAME | COLUMN\_NAME | DATA\_TYPE | DATA\_LENGTH | NULLABLE |
| --- | --- | --- | --- | --- |
| XZZ\_ATTRACTION | ATTRACTION\_ID | NUMBER | 22 | N |
| XZZ\_ATTRACTION | ATTRACTION\_NAME | VARCHAR2 | 60 | N |
| XZZ\_ATTRACTION | ATTRACTION\_DESCRIPTION | VARCHAR2 | 100 | N |
| XZZ\_ATTRACTION | ATTRACTION\_TYPE | VARCHAR2 | 20 | N |
| XZZ\_ATTRACTION | STATUS | VARCHAR2 | 20 | N |
| XZZ\_ATTRACTION | CAPACITY | NUMBER | 22 | N |
| XZZ\_ATTRACTION | MIN\_HEIGHT | NUMBER | 22 | N |
| XZZ\_ATTRACTION | DURATION | NUMBER | 22 | N |
| XZZ\_ATTRACTION | LOCATION | VARCHAR2 | 10 | N |
| XZZ\_ATTR\_VISI | R\_ID | NUMBER | 22 | N |
| XZZ\_ATTR\_VISI | R\_IN\_TIME | DATE | 7 | N |
| XZZ\_ATTR\_VISI | VISITOR\_ID | NUMBER | 22 | N |
| XZZ\_ATTR\_VISI | ATTRACTION\_ID | NUMBER | 22 | N |
| XZZ\_ORDER | ORDER\_ID | NUMBER | 22 | N |
| XZZ\_ORDER | ORDER\_DATE | DATE | 7 | N |
| XZZ\_ORDER | ORDER\_QUANTITY | NUMBER | 22 | N |
| XZZ\_ORDER | VISITOR\_ID | NUMBER | 22 | N |
| XZZ\_ORDE\_SHOW | OS\_ID | NUMBER | 22 | N |
| XZZ\_ORDE\_SHOW | SHOW\_ID | NUMBER | 22 | N |
| XZZ\_ORDE\_SHOW | ORDER\_ID | NUMBER | 22 | N |
| XZZ\_ORDE\_STOR | MENU\_ITEM\_ID | NUMBER | 22 | N |
| XZZ\_ORDE\_STOR | MENU\_ITEM\_NAME | VARCHAR2 | 30 | N |
| XZZ\_ORDE\_STOR | MENU\_ITEM\_DESCRIPTION | VARCHAR2 | 100 | N |
| XZZ\_ORDE\_STOR | MENU\_ITEM\_UNIT\_PRICE | NUMBER | 22 | N |
| XZZ\_ORDE\_STOR | STORE\_ID | NUMBER | 22 | N |
| XZZ\_ORDE\_STOR | ORDER\_ID | NUMBER | 22 | N |
| XZZ\_PARKING | PARKING\_ID | NUMBER | 22 | N |
| XZZ\_PARKING | LOT | VARCHAR2 | 10 | N |
| XZZ\_PARKING | SPOT | NUMBER | 22 | N |
| XZZ\_PARKING | TIME\_IN | DATE | 7 | N |
| XZZ\_PARKING | TIME\_OUT | DATE | 7 | Y |
| XZZ\_PARKING | FEE | NUMBER | 22 | N |
| XZZ\_PARKING | ORDER\_ID | NUMBER | 22 | N |
| XZZ\_PAYMENT | PAYMENT\_ID | NUMBER | 22 | N |
| XZZ\_PAYMENT | PAYMENT\_METHOD | VARCHAR2 | 15 | N |
| XZZ\_PAYMENT | PAYMENT\_AMOUNT | NUMBER | 22 | N |
| XZZ\_PAYMENT | NAME\_ON\_CARD | VARCHAR2 | 30 | Y |
| XZZ\_PAYMENT | CARD\_NUMBER | NUMBER | 22 | Y |
| XZZ\_PAYMENT | EXPIRATION\_DATE | DATE | 7 | Y |
| XZZ\_PAYMENT | CVV | NUMBER | 22 | Y |
| XZZ\_PAYMENT | ORDER\_ID | NUMBER | 22 | N |
| XZZ\_SHOW | SHOW\_ID | NUMBER | 22 | N |
| XZZ\_SHOW | SHOW\_NAME | VARCHAR2 | 50 | N |
| XZZ\_SHOW | SHOW\_DESCRIPTION | VARCHAR2 | 100 | N |
| XZZ\_SHOW | SHOW\_TYPE | VARCHAR2 | 15 | N |
| XZZ\_SHOW | START\_TIME | DATE | 7 | N |
| XZZ\_SHOW | END\_TIME | DATE | 7 | N |
| XZZ\_SHOW | ACCESSIBLE | VARCHAR2 | 3 | N |
| XZZ\_SHOW | SHOW\_PRICE | NUMBER | 22 | N |
| XZZ\_TICKET | TICKET\_ID | NUMBER | 22 | N |
| XZZ\_TICKET | TICKET\_METHOD | VARCHAR2 | 6 | N |
| XZZ\_TICKET | VISIT\_DATE | DATE | 7 | N |
| XZZ\_TICKET | TICKET\_PRICE | NUMBER | 22 | N |
| XZZ\_TICKET | TICKET\_DISCOUNT | NUMBER | 22 | Y |
| XZZ\_TICKET | ORDER\_ID | NUMBER | 22 | N |
| XZZ\_TICKET | VISITOR\_ID | NUMBER | 22 | N |
| XZZ\_VISITOR | STATE | VARCHAR2 | 20 | Y |
| XZZ\_VISITOR | ZIP | NUMBER | 22 | Y |
| XZZ\_VISITOR | EMAIL | VARCHAR2 | 60 | Y |
| XZZ\_VISITOR | PHONE | NUMBER | 22 | Y |

CONSTRAINTS:

Data Dictionary Query:

SELECT

CONSTRAINT\_NAME, TABLE\_NAME, SEARCH\_CONDITION

FROM USER\_CONSTRAINTS

WHERE CONSTRAINT\_NAME LIKE 'C%'

Result:

| CONSTRAINT\_NAME | TABLE\_NAME | SEARCH\_CONDITION |
| --- | --- | --- |
| CHK\_ATTRACTION\_STATUS | XZZ\_ATTRACTION | status IN ('open', 'closed', 'under maintenance') |
| CHK\_ATTRACTION\_TYPE | XZZ\_ATTRACTION | attraction\_type IN ('roller coaster', 'water ride', 'dark ride', 'kid ride') |
| CHK\_CATEGORY | XZZ\_STORE | category IN ('Food stall', 'Ice cream parlor', 'Restaurant', 'Gift Shop', 'Apparels') |
| CHK\_PAYMENT | XZZ\_PAYMENT | (payment\_method = 'Cash' AND name\_on\_card **IS** NULL AND card\_number **IS** NULL AND expiration\_date **IS** NULL AND CVV **IS** NULL)  OR (payment\_method IN ('Credit', 'Debit') AND name\_on\_card IS NOT NULL AND card\_number IS NOT NULL AND expiration\_date IS NOT NULL AND CVV IS NOT NULL) |
| CHK\_PAYMENT\_METHOD | XZZ\_PAYMENT | payment\_method IN ('Cash', 'Credit', 'Debit') |
| CHK\_SHOW\_ACCESSIBLE | XZZ\_SHOW | accessible IN ('Yes', 'No') |
| CHK\_SHOW\_TYPE | XZZ\_SHOW | show\_type IN ('drama', 'musical', 'comedy', 'horror', 'adventure') |
| CHK\_TICKET\_METHOD | XZZ\_TICKET | ticket\_method IN ('Online', 'Onsite') |
| CHK\_VISITOR\_TYPE | XZZ\_VISITOR | visitor\_type IN ('Individual', 'Group', 'Member', 'Student') |