Database Project Assignment

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PART A

TASK 1: IDENTIFY ENTITIES & DEVELOP BUSINESS RULES

ENTITIES:

Task 1 | ENTITIES

1	Customer	Stores individual customer's information who book photography session and order photography, such as personal ID, name, mobile number, address, and email address.
2	Booking	A booking for a photography session must be made two months in advance. The booking entity includes the customer preferred date, session type (eg. graduation, wedding), progress of payment, and such.
3	Photography Session	Each photography session will have different date and time according to customer's or staff's request. These data can be store in attributes such as session id, date and time, and charge amount.
4	Location	The location entity is where a photography session take place that is entirely determined by the costumer, this can either be in the beach, restaurants, city etc. Its attribute are as follows: id, name, street, suburb, city, and postcode.
5	Digitize Photograph	The photograph entity is the digitised photo captured in the photograph session. Each photo has its own photo number, date, time, and more.
6	Photo Combination	This entity contains the combinations the customers want for each image. This comes with the attributes: id, photocolour, photosize, finishtype, and price.
7	Orders	Individual's customer's order for photography can be stored. Storing attributes such as ordered photos, collection method, and total cost.
8	Destination Location	The destination location entity is where the courier delivers the photo ordered by the customer. This entity contains the order number, postal address, and charge.
9	Staff	Staffs information is stored, details like person ID, name, mobile number, their role.

BUSINESS RULE:

Format: Each/A/An ENTITY_1 May/Must Relationship_Verb_Phrase number ENTITY_2

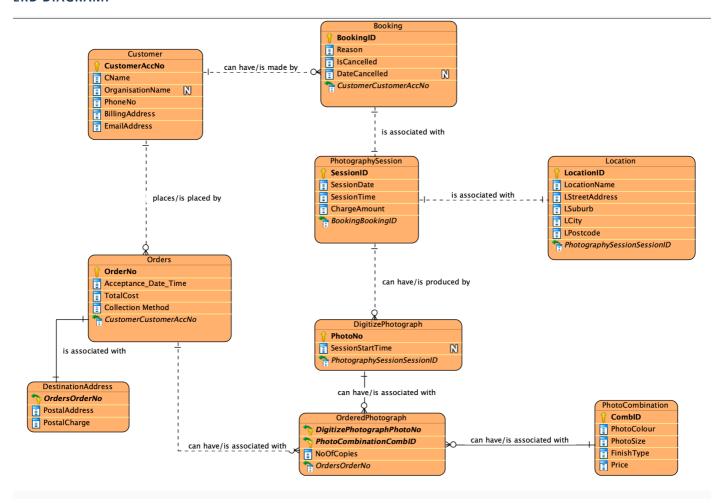
Task 1 | BUSINESS RULES

IUSK 2	E DOSINESS NOTES
1	Customer may book multiple bookings.
2	Bookings must be booked by a customer.
3	A photography session must be associated with a booking.
4	A booking must be associated with a photography session.
5	A photography session must be associated with a location.
6	A location must be associated with a photography session.
7	A photography session may have multiple digitised photographs.
8	Multiple digitised photographs must be produced by a photography session.
9	Customer may place multiple Orders.
10	Orders must be placed by a customer.
11	Orders may contain multiple Photographs.
12	Photograph may be part of multiple Orders.
13	Orders may have a Destination Location for couriered orders.
14	Destination Location must be associated with an order.
15	Orders may be picked up.
16	A staff may be associated with multiple Photography Sessions.
17	Photography Session may be handled by a staff.
18	Staff may be associated with multiple Orders.
19	Order may be handled by a staff.
20	Each ordered photographs may have multiple photo combinations
21	Each photo combination must be associated with an ordered photograph.

TASK 2: CONSTRUCT A LOGICAL ENTITY RELATIONSHIP DIAGRAM (ERD)

		Attributes names		
Table Name	Atrribute Name	Contents	Туре	PK / FK
Customer	CustomerAccNo CName OrganisationName PhoneNo BillingAddress EmailAddress	Customer Account Number Customer Name Organisation Name Customer Phone Number Customer Billing Address Customer Email Address	Number Character Character Character Character Character	PK
Photography Session	SessionID SessionDate SessionTime ChargeAmount BookingBookingID	Session ID Session Date Session Time Session Charge Amount Booking ID	Number Date Character Number Number	PK FK
Orders	OrderNo Acceptance_Date_Time TotalCost CollectionMethod CustomerAccNo	Order Number Order Date Acceptance Total Cost Collection Method Customer Account Number	Number Timestamp Number Character Number	PK FK
Destination Location:	OderNo PostalAddress PostalCharge	Oder Number Postal Address Postal Charge	Number Character Double	PK
Location:	LocationID LocationName LStreet LSuburb LCity LPostcode	Location ID Location Name Location Street Name Location Suburb Name Location City Name Location Post Code	Number Character Character Character Character Character	PK
Booking:	BookingID Reason IsCancelled DateCancelled CustomerAccNo	Booking ID Reason for Booking Booking Cancellation Status Booking Cancelled Date Customer Account Number	Number Character Character Date Number	PK FK
Digitize Photograph	PhotoNo SessionStartTime PhotographySessionID	Photography Number Session Start Time Photography Session ID	Number Character Number	PK FK
Ordered Photography	DigitizePhotographyNo PhotoCombinationID NoOfCopies OrderNo	Digitize Photography Number Photography Combination ID Number of Copies Oder Number	Number Number Number Number	PK PK FK
Photo Combination	CombID PhotoColour PhotoSize FinishType Price	Combination ID Photo Colour Photo Size Finish Type Photo Price	Number Character Character Character Number	PK

ERD DIAGRAM:



Note:

Added the *IsCancelled* & *DateCancelled* attributes to the BOOKING entity because it's needed for whenever a customer wants to cancel the booking so that the company have the database (which is the dates) to calculate if they can get a refund. E.g. customer can get a refund if they cancel the on the web page at least three days in advance before the booking.

SessionType: Removed this attribute from the PHOTOGRAPH SESSION entity because the **Reason** attribute why they booked a photography session is already provided in the BOOKING entity so it is not needed because the database will only become repetitive

Staff: Removed this entity because the case study doesn't require that it saves/show the staff who handles the photography session in the database.)(the staff was only mentioned in the case study to show that the company were understaffed so they needed a website)

SessionDate: (I removed this because this attribute is already on the PHOTOGRPAHY SESSION entity so I just linked the session ID which is from the PHOTOGRAPH SESSION ENTITY to the PHOTOGRAPH entity.

TASK 3: CREATE TABLES

CUSTOMERACCNO NUMBER (6) NOT NULL,

CUSTOMER (CUSTOMERACCNO));

CONSTRAINT BOOKING BOOKINGID PRIMARY KEY (BOOKINGID),

```
CREATE TABLE customer
(CUSTOMERACCNO NUMBER(6) NOT NULL,
CNAME VARCHAR2(30)NOT NULL,
ORGANISATIONNAME VARCHAR2(30),
PHONENO VARCHAR2(20),
EMAILADDRESS VARCHAR2(30),
BILLINGADDRESS VARCHAR2(100) NOT NULL,
CONSTRAINT CUSTOMER_CUSTOMERACCNO PRIMARY KEY(CUSTOMERACCNO));
CREATE TABLE booking
(BOOKINGID VARCHAR2(6) NOT NULL,
REASON VARCHAR2(50)NOT NULL,
ISCANCELLED VARCHAR2(6),
DATECANCELLED DATE,
```

```
CREATE TABLE ORDERS

(ORDERNO VARCHAR2(6) NOT NULL,

ACCEPTANCE_DATE_TIME DATE NOT NULL,

TOTALCOST NUMBER(6,2) NOT NULL,

COLLECTIONMETHOD VARCHAR2(20)NOT NULL,

CUSTOMERACCNO NUMBER(6) NOT NULL,

CONSTRAINT ORDERS_ORDERNO PRIMARY KEY(ORDERNO),

CONSTRAINT ORDERS_CUSTOMERACCNO_FK FOREIGN KEY (CUSTOMERACCNO) REFERENCES

CUSTOMER (CUSTOMERACCNO));
```

CONSTRAINT BOOKING CUSTOMERACCNO FK FOREIGN KEY (CUSTOMERACCNO) REFERENCES

```
CREATE TABLE destinationAddress

(ORDERNO VARCHAR2(6) NOT NULL,

POSTALADRESS VARCHAR2(100) NOT NULL,

POSTALCHARGE NUMBER(6,2) NOT NULL,

CONSTRAINT destinationAddress_ORDERNO PRIMARY KEY(ORDERNO),

CONSTRAINT destinationAddress_ORDERNO_FK FOREIGN KEY (ORDERNO) REFERENCES

ORDERS(ORDERNO));
```

```
CREATE TABLE photographySession
(SESSIONID VARCHAR2(6) NOT NULL,
SESSIONDATE DATE NOT NULL,
SESSIONTIME VARCHAR2(50)NOT NULL,
CHARGEAMOUNT NUMBER(6,2)NOT NULL,
BOOKINGID VARCHAR2(6) NOT NULL,
CONSTRAINT PHOTOGRAPHYSESSION_SESSIONID PRIMARY KEY(SESSIONID),
```

```
CREATE TABLE location

(LOCATIONID VARCHAR2(6) NOT NULL,

SESSIONID VARCHAR2(6) NOT NULL,

LOCATIONNAME VARCHAR2(20) NOT NULL,

LSTREETADDRESS VARCHAR2(50),

LSUBURB VARCHAR2 (20) NOT NULL,

LCITY VARCHAR2(20) NOT NULL,

LPOSTCODE VARCHAR2(5) NOT NULL,

CONSTRAINT LOCATION_LOCATIONID PRIMARY KEY(LOCATIONID),

CONSTRAINT LOCATION_SESSIONID_FK FOREIGN KEY(SESSIONID) REFERENCES

PHOTOGRAPHYSESSION(SESSIONID));
```

```
CREATE TABLE digitizePhotograph
(PHOTONO VARCHAR2(6) NOT NULL,
SESSIONSTARTTIME VARCHAR2(8)NOT NULL,
SESSIONID VARCHAR2(6) NOT NULL,
CONSTRAINT digitizePhotograph_PHOTONO PRIMARY KEY(PHOTONO),
CONSTRAINT digitizePhotograph_SESSIONID_FK FOREIGN KEY(SESSIONID) REFERENCES
PHOTOGRAPHYSESSION(SESSIONID));
```

```
CREATE TABLE photoCombination

(COMBID VARCHAR2(6) NOT NULL,

PHOTOCOLOUR VARCHAR2(20) NOT NULL,

PHOTOSIZE VARCHAR2(10) NOT NULL,

FINISHTYPE VARCHAR2(20) NOT NULL,

PRICE NUMBER(6,2) NOT NULL,

CONSTRAINT photoCombination_COMBID PRIMARY KEY(COMBID));
```

```
CREATE TABLE orderedPhotograph

(PHOTONO VARCHAR2(6) NOT NULL,

COMBID VARCHAR2(6) NOT NULL,

NOOFCOPIES NUMBER(10) NOT NULL,

ORDERNO VARCHAR2(6) NOT NULL,

CONSTRAINT orderedPhotography_PHOTONO_COMBID PRIMARY KEY (PHOTONO, COMBID),

CONSTRAINT orderedPhotography_PHOTONO_FK FOREIGN KEY (PHOTONO) REFERENCES

digitizePhotograph (PHOTONO),

CONSTRAINT orderedPhotography_COMBID_FK FOREIGN KEY (COMBID) REFERENCES

photoCombination(COMBID),

CONSTRAINT orderedPhotography_ORDERNO_FK FOREIGN KEY (ORDERNO) REFERENCES

ORDERS(ORDERNO),

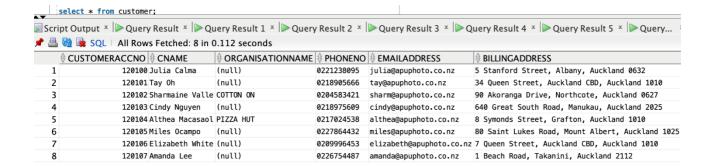
CONSTRAINT orderedPhotography_NOOFCOPIES_CHECK CHECK (NOOFCOPIES >= 0 AND

MOD (NOOFCOPIES, 1) = 0));
```

Customer Table:

Customer AccNo	CName	Organisatio Name	PhoneNo	BillingAddress	EmailAddress
120100	Julia Calma	null	0221238095	5 Stanford Street, Albany, Auckland 0632	julia@apuphoto.co.nz
120101	Tay Oh	null	0218905666	34 Queen Street, Auckland CBD, Auckland 1010	tay@apuphoto.co.nz
120102	Sharmaine Valle	COTTON ON	0204583421	90 Akoranga Drive, Northcote, Auckland 0627	sharm@apuphoto.co.nz
120103	Cindy Nguyen	null	0218975609	640 Great South Road, Manukau, Auckland 2025	cindy@apuphoto.co.nz
120104	Althea Macasaol	PIZZA HUT	0217024538	8 Symonds Street, Grafton, Auckland 1010	althea@apuphoto.co.nz
120105	Miles Ocampo	null	0227864432	80 Saint Lukes Road, Mount Albert, Auckland 1025	miles@apuphoto.co.nz
120106	Elizabeth White	null	0209996453	7 Queen Street, Auckland CBD, Auckland 1010	elizabeth@apuphoto.co.nz
120107	Amanda Lee	null	0226754487	1 Beach Road, Takanini, Auckland 2112	amanda@apuphoto.co.nz

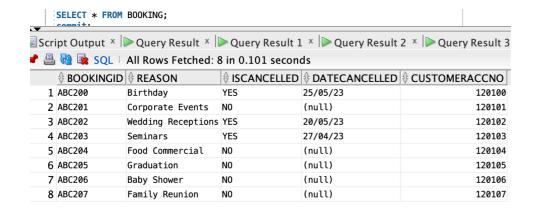
```
■ INSERT INTO Customer
 (CustomerAccNo, CName, OrganisationName, PhoneNo, BillingAddress, EmailAddress)
VALUES
   ('120100', 'Julia Calma', NULL, '0221238095', '5 Stanford Street, Albany, Auckland 0632', 'julia@apuphoto.co.nz');
■ INSERT INTO Customer
   (CustomerAccNo, CName, OrganisationName, PhoneNo, BillingAddress, EmailAddress)
  VALUES
   ('120101', 'Tay Oh ', NULL, '0218905666', '34 Queen Street, Auckland CBD, Auckland 1010', 'tay@apuphoto.co.nz');
■ INSERT INTO Customer
    (CustomerAccNo, CName, OrganisationName, PhoneNo, BillingAddress, EmailAddress)
   ('120102', 'Sharmaine Valle', 'COTTON ON', '0204583421', '90 Akoranga Drive, Northcote, Auckland 0627','sharm@apuphoto.co.nz');
■ INSERT INTO Customer
    (CustomerAccNo, CName, OrganisationName, PhoneNo, BillingAddress, EmailAddress)
 VALUES
   ('120103', 'Cindy Nguyen', NULL, '0218975609', '640 Great South Road, Manukau, Auckland 2025', 'cindy@apuphoto.co.nz');
■ INSERT INTO Customer
    (CustomerAccNo, CName, OrganisationName, PhoneNo, BillingAddress, EmailAddress)
   ('120104', 'Althea Macasaol', 'PIZZA HUT', '0217024538', '8 Symonds Street, Grafton, Auckland 1010', 'althea@apuphoto.co.nz');
■ INSERT INTO Customer
    (CustomerAccNo, CName, OrganisationName, PhoneNo, BillingAddress, EmailAddress)
 VALUES
    ('120105', 'Miles Ocampo', NULL, '0227864432', '80 Saint Lukes Road, Mount Albert, Auckland 1025', 'miles@apuphoto.co.nz');
■ INSERT INTO Customer
   (CustomerAccNo, CName, OrganisationName, PhoneNo, BillingAddress, EmailAddress)
  VALUES
    ('120106', 'Elizabeth White', NULL, '0209996453', '7 Queen Street, Auckland CBD, Auckland 1010', 'elizabeth@apuphoto.co.nz');
■ INSERT INTO Customer
    (CustomerAccNo, CName, OrganisationName, PhoneNo, BillingAddress, EmailAddress)
   ('120107', 'Amanda Lee', NULL, '0226754487', '1 Beach Road, Takanini, Auckland 2112', 'amanda@apuphoto.co.nz');
  COMMIT;
```



Booking Table:

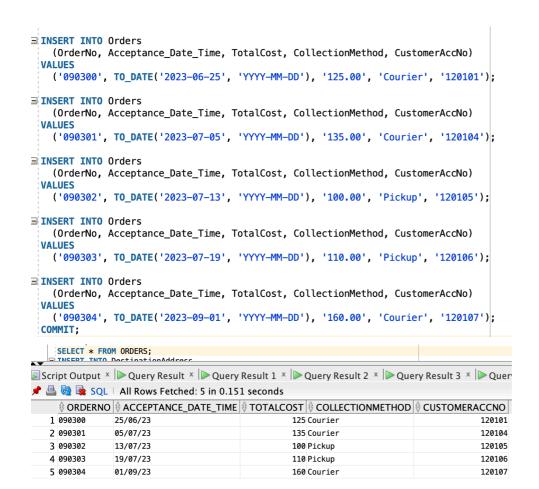
BookingID	Reason	IsCancelled	DateCancelled	CustomerAccNo
ABC200	Birthday	YES	2023-05-25	120100
ABC201	Corporate Events	NO	NULL	120101
ABC202	Wedding Receptions	YES	2023-05-20	120102
ABC203	Seminars	YES	2023-04-27	120103
ABC204	Food Commercial	NO	NULL	120104
ABC205	Graduation	NO	NULL	120105
ABC206	Baby Shower	NO	NULL	120106
ABC207	Family Reunion	NO	NULL	120107

```
■ INSERT INTO Booking
    (BookingID, Reason, IsCancelled, DateCancelled, CustomerAccNo)
    ('ABC200', 'Birthday', 'YES', TO_DATE('2023-05-25', 'YYYY-MM-DD'), '120100');
■ INSERT INTO Booking
    (BookingID, Reason, IsCancelled, DateCancelled, CustomerAccNo)
  VALUES
    ('ABC201', 'Corporate Events', 'NO', NULL, '120101');
■ INSERT INTO Booking
    (BookingID, Reason, IsCancelled, DateCancelled, CustomerAccNo)
    ('ABC202', 'Wedding Receptions', 'YES', TO_DATE('2023-05-20', 'YYYY-MM-DD'), '120102');
■ INSERT INTO Booking
    (BookingID, Reason, IsCancelled, DateCancelled, CustomerAccNo)
  VALUES
    ('ABC203', 'Seminars', 'YES', TO_DATE('2023-04-27', 'YYYY-MM-DD'), '120103');
INSERT INTO Booking
    (BookingID, Reason, IsCancelled, DateCancelled, CustomerAccNo)
    ('ABC204', 'Food Commercial', 'NO', NULL, '120104');
■ INSERT INTO Booking
    (BookingID, Reason, IsCancelled, DateCancelled, CustomerAccNo)
    ('ABC205', 'Graduation', 'NO', NULL, '120105');
■ INSERT INTO Booking
    (BookingID, Reason, IsCancelled, DateCancelled, CustomerAccNo)
    ('ABC206', 'Baby Shower', 'NO', NULL, '120106');
■ INSERT INTO Booking
    (BookingID, Reason, IsCancelled, DateCancelled, CustomerAccNo)
  VALUES
    ('ABC207', 'Family Reunion', 'NO', NULL, '120107');
  COMMIT;
```



Orders Table:

OrderNo	ACCEPTANCE_DATE_TIME	TOTALCOST	COLLECTIONMETHOD	CustomerAccNo
090300	2023-06-25	125.00	Courier	120101
090301	2023-07-05	135.00	Courier	120104
090302	2023-07-13	100.00	Pickup	120105
090303	2023-07-19	110.00	Pickup	120106
090304	2023-09-01	160.00	Courier	120107

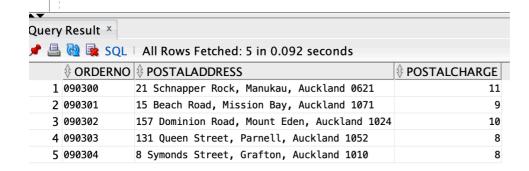


DestinationAddress Table:

OrderNo	POSTALADDRESS	POSTALCHARGE
090300	21 Schnapper Rock, Manukau, Auckland 0621	11.00
090301	15 Beach Road, Mission Bay, Auckland 1071	9.00
090302	57 Dominion Road, Mount Eden, Auckland 1024	10.00
090303	31 Queen Street, Parnell, Auckland 1052	8.00
090304	8 Symonds Street, Grafton, Auckland 1010	8.00

```
■ INSERT INTO DestinationAddress
   (OrderNo, PostalAddress, PostalCharge)
 VALUES
   ('090301', '15 Beach Road, Mission Bay, Auckland 1071', '9.00');
■ INSERT INTO DestinationAddress
   (OrderNo, PostalAddress, PostalCharge)
 VALUES
   ('090302', '157 Dominion Road, Mount Eden, Auckland 1024', '10.00');
■ INSERT INTO DestinationAddress
   (OrderNo, PostalAddress, PostalCharge)
   ('090303', '131 Queen Street, Parnell, Auckland 1052', '8.00');
■ INSERT INTO DestinationAddress
   (OrderNo, PostalAddress, PostalCharge)
 VALUES
   ('090304', '8 Symonds Street, Grafton, Auckland 1010', '8.00');
 COMMIT;
```

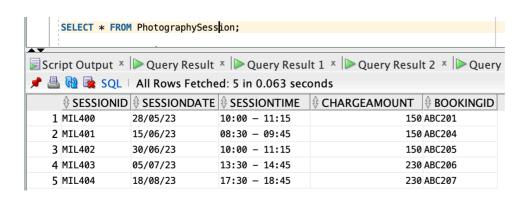
```
SELECT*FROM DestinatiohAddress;
```



PhotographySession Table:

SessionID	SESSIONDATE	SESSIONTIME	CHARGEAMOUNT	BOOKINGID
MIL400	2023-05-28	10:00 – 11:15	150.00	ABC201
MIL401	2023-06-15	08:30 – 09:45	150.00	ABC204
MIL402	2023-06-30	10:00 - 11:15	150.00	ABC205
MIL403	2023-07-05	13:30 - 14:45	230.00	ABC206
MIL404	2023-08-18	17:30 – 18:45	230.00	ABC207

```
■ INSERT INTO PhotographySession
    (SessionID, SessionDate, SessionTime, ChargeAmount, BookingID)
  VALUES
   ('MIL400', TO_DATE('2023-05-28', 'YYYY-MM-DD'), '10:00 - 11:15', '150.00', 'ABC201');
■ INSERT INTO PhotographySession
    (SessionID, SessionDate, SessionTime, ChargeAmount, BookingID)
  VALUES
    ('MIL401', TO_DATE('2023-06-15', 'YYYY-MM-DD'), '08:30 - 09:45', '150.00', 'ABC204');
■ INSERT INTO PhotographySession
    (SessionID, SessionDate, SessionTime, ChargeAmount, BookingID)
  VALUES
   ('MIL402', TO_DATE('2023-06-30', 'YYYY-MM-DD'), '10:00 - 11:15', '150.00', 'ABC205');
■ INSERT INTO PhotographySession
    (SessionID, \ SessionDate, \ SessionTime, \ ChargeAmount, \ BookingID)
  VALUES
    ('MIL403', TO_DATE('2023-07-05', 'YYYY-MM-DD'), '13:30 - 14:45', '230.00', 'ABC206');
■ INSERT INTO PhotographySession
    (SessionID, SessionDate, SessionTime, ChargeAmount, BookingID)
   ('MIL404', TO_DATE('2023-08-18', 'YYYY-MM-DD'), '17:30 - 18:45', '230.00', 'ABC207');
  COMMIT;
```



Location Table:

LOCATIONID	SESSIONID	LOCATIONNA ME	LSTREETADDRESS	LSUBURB	LCITY	LPOSTCODE
PAR500	MIL400	Park	38 Hillcrest Road	Westmere	Auckland	1061
PAR501	MIL401	APU Studio	9 Shore Road	Remuera	Auckland	1011
PAR502	MIL402	Beach	56 Marine Parade	Milford	Auckland	1071
PAR503	MIL403	APU Studio	9 Shore Road	Remuera	Auckland	1011
PAR504	MIL404	Cafe	73 Manukau Road	Epsom	Auckland	1052

```
■ INSERT INTO Location
           (LocationID, SessionID, LocationName, LStreetAddress, LSuburb, LCity, LPostcode)
     VALUES
           ('PAR500', 'MIL400', 'Park', '38 Hillcrest Road', 'Westmere', 'Auckland', '1061');
■ INSERT INTO Location
           (LocationID, SessionID, LocationName, LStreetAddress, LSuburb, LCity, LPostcode)
     VALUES
           ('PAR501', 'MIL401', 'APU Studio', '9 Shore Road', 'Remuera', 'Auckland', '1011');
■ INSERT INTO Location
           (LocationID, SessionID, LocationName, LStreetAddress, LSuburb, LCity, LPostcode)
           ('PAR502', 'MIL402', 'Beach', '56 Marine Parade', 'Milford', 'Auckland', '1071');
■ INSERT INTO Location
           (LocationID, SessionID, LocationName, LStreetAddress, LSuburb, LCity, LPostcode)
           ('PAR503', 'MIL403', 'APU Studio', '9 Shore Road', 'Remuera', 'Auckland', '1011');
■ INSERT INTO Location
           (LocationID, SessionID, LocationName, LStreetAddress, LSuburb, LCity, LPostcode)
           ('PAR504', 'MIL404', 'Cafe', '73 Manukau Road', 'Epsom', 'Auckland', '1052');
     COMMIT;
           SELECT * FROM LOCATION;
Script Output x | Description Query Result x | Description Query Result 1 x | Description Query Result 3 x | Description
 🧨 🖶 🙀 攻 SQL 🗆 All Rows Fetched: 5 in 0.078 seconds
           $ LOCATIONID | $ SESSIONID | $ LOCATIONNAME | $ LSTREETADDRESS | $ LSUBURB | $ LCITY | $ LPOSTCODE
       1 PAR500
                                                                                                                                                                       Auckland 1061
                                         MIL400
                                                                   Park
                                                                                                        38 Hillcrest Road
                                                                                                                                                Westmere
       2 PAR501
                                         MIL401
                                                                   APU Studio
                                                                                                        9 Shore Road
                                                                                                                                                Remuera
                                                                                                                                                                       Auckland 1011
       3 PAR502
                                         MIL402
                                                                   Beach
                                                                                                        56 Marine Parade
                                                                                                                                                Milford
                                                                                                                                                                       Auckland 1071
       4 PAR503
                                         MIL403
                                                                   APU Studio
                                                                                                        9 Shore Road
                                                                                                                                                                       Auckland 1011
                                                                                                                                                Remuera
```

73 Manukau Road

Auckland 1052

Epsom

DigitizePhotograph Table:

5 PAR504

PHOTONO	SESSIONSTARTTIME	SESSIONID
IMG001	10:00:00	MIL400
IMG002	08:30:00	MIL401
IMG003	10:00:00	MIL402
IMG004	13:30:00	MIL403

MIL404

Cafe

IMG005 17:30:00 MIL404 ■ INSERT INTO DigitizePhotograph (PhotoNo, SessionStartTime, SessionID) **VALUES** ('IMG001', '10:00:00', 'MIL400'); ■ INSERT INTO DigitizePhotograph (PhotoNo, SessionStartTime, SessionID) **VALUES** ('IMG002', '08:30:00', 'MIL401'); ■ INSERT INTO DigitizePhotograph (PhotoNo, SessionStartTime, SessionID) **VALUES** ('IMG003', '10:00:00', 'MIL402'); ■ INSERT INTO DigitizePhotograph (PhotoNo, SessionStartTime, SessionID) **VALUES** ('IMG004', '13:30:00', 'MIL403'); ■ INSERT INTO DigitizePhotograph (PhotoNo, SessionStartTime, SessionID) **VALUES** ('IMG005', '17:30:00', 'MIL404'); COMMIT: SELECT * FROM DigitizePhotograph; Script Output * P Query Result * P Query Result 1 🖶 🙀 🕦 SOL | All Rows Fetched: 5 in 0.078 second **♦ PHOTONO** | **♦ SESSIONSTARTTIME** | **♦ SESSIONID** 1 IMG001 10:00:00 MIL400 2 IMG002 08:30:00 MIL401 3 IMG003

PhotoCombination Table:

4 IMG004

5 IMG005

10:00:00

13:30:00

17:30:00

COMBID	PHOTOCOLOUR	PHOTOSIZE	FINISHTYPE	PRICE
COM600	B and W	4X6	GLOSSY	2.00
COM601	B and W	6X6	MATTE	6.00
COM602	Colour	4X6	MATTE	17.00

MIL402

MIL403

MIL404

 COM603
 B and W
 7X10
 GLOSSY
 25.00

 COM604
 Sepia
 4X6
 GLOSSY
 13.00

```
■ INSERT INTO PhotoCombination
     (CombID, PhotoColour, PhotoSize, FinishType, Price)
   VALUES
      ('COM600', 'B and W', '4X6', 'GLOSSY', '2.00');
 ■ INSERT INTO PhotoCombination
     (CombID, PhotoColour, PhotoSize, FinishType, Price)
   VALUES
      ('COM601', 'B and W', '6X6', 'MATTE', '6.00');
 ■ INSERT INTO PhotoCombination
     (CombID, PhotoColour, PhotoSize, FinishType, Price)
   VALUES
      ('COM602', 'Colour', '4X6', 'GMATTE', '17.00');
 ■ INSERT INTO PhotoCombination
     (CombID, PhotoColour, PhotoSize, FinishType, Price)
   VALUES
      ('COM603', 'B and W', '7X10', 'GLOSSY', '25.00');
 ■ INSERT INTO PhotoCombination
     (CombID, PhotoColour, PhotoSize, FinishType, Price)
   VALUES
     ('COM604', 'Sepia', '4X6', 'GLOSSY', '13.00');
   COMMIT;
    SELECT * FROM PhotoCombination;
Script Output × P Query Result × Query Result 1 × Query Resu
 🟲 🖶 🔞 攻 SQL 🗆 All Rows Fetched: 5 in 0.213 seconds
    ♦ COMBID | ♦ PHOTOCOLOUR | ♦ PHOTOSIZE | ♦ FINISHTYPE | ♦ PRICE |
   1 COM600
              B and W
                             4X6
                                         GLOSSY
                                                            2
   2 COM601
              B and W
                             6X6
                                                           6
                                         MATTE
  3 C0M602
             Colour
                             4X6
                                         GMATTE
                                                           17
  4 C0M603
             B and W
                             7X10
                                         GLOSSY
                                                           25
   5 COM604
                             4X6
                                         GLOSSY
             Sepia
                                                           13
```

OrderedPhotograph Table:

PHOTONO	COMBID	NOOFCOPIES	ORDERNO
IMG001	COM600	2	090300
IMG002	COM601	6	090301

IMG003	COM600	4	090302
IMG004	COM603	7	090303
IMG005	COM604	9	090304

```
■ INSERT INTO OrderedPhotograph
   (PhotoNo, CombID, NoOfCopies, OrderNo)
 VALUES
    ('IMG001', 'COM600', '2', '090300');
■ INSERT INTO OrderedPhotograph
    (PhotoNo, CombID, NoOfCopies, OrderNo)
 VALUES
    ('IMG002', 'COM601', '6', '090301');
■ INSERT INTO OrderedPhotograph
    (PhotoNo, CombID, NoOfCopies, OrderNo)
 VALUES
    ('IMG003', 'COM600', '4', '090302');
■ INSERT INTO OrderedPhotograph
    (PhotoNo, CombID, NoOfCopies, OrderNo)
 VALUES
    ('IMG004', 'COM603', '7', '090303');
■ INSERT INTO OrderedPhotograph
   (PhotoNo, CombID, NoOfCopies, OrderNo)
 VALUES
    ('IMG005', 'COM604', '9', '090304');
    COMMIT;
```

	♦ PHOTONO	⊕ COMBID	♦ NOOFCOPIES	♦ ORDERNO
1	IMG001	C0M600	2	090300
2	IMG002	COM601	6	090301
3	IMG003	C0M600	4	090302
4	IMG004	C0M603	7	090303
5	IMG005	C0M604	9	090304

PURPOSE OF THE QUERY 1:

To search for all customers who booked daytime photography sessions.

SQL SELECT query:

```
SELECT c.CName AS "Customer", s.SessionDate AS "Session Date", s.SessionTime AS "FROM Customer c, Booking b, PhotographySession s
WHERE c.CustomerAccNo = b.CustomerAccNo
AND b.BookingID = s.BookingID
AND IsCancelled = 'NO'
AND s.SessionTime BETWEEN '08:30' AND '14:45'
```

Output/Result of the Query:

	 Customer	\$ Session Date	\$ Session Time
1	Althea Macasaol	15/06/23	08:30 - 09:45
2	Miles Ocampo	30/06/23	10:00 - 11:15
3	Tay 0h	28/05/23	10:00 - 11:15
4	Elizabeth White	05/07/23	13:30 - 14:45

PURPOSE OF THE QUERY 2:

To count all orders where collection method is by courier (sort by PostalCharge from highest to lowest)

SQL SELECT query:

```
SELECT COUNT(o.OrderNo)AS "COUNT", o.CollectionMethod, o.OrderNo, d.PostalCharge AS "POSTAL CHARGE ($)"
FROM Orders o, DestinationAddress d
WHERE o.OrderNo = d.OrderNo
AND o.CollectionMethod = 'Courier'
GROUP BY o.CollectionMethod, o.OrderNo, d.PostalCharge
ORDER BY d.PostalCharge DESC;
```

Output/Result of the Query:

	⊕ COUNT		♦ ORDERNO	<pre></pre>
1	1	Courier	090300	11
2	1	Courier	090301	9
3	1	Courier	090304	8

PURPOSE OF THE QUERY 3:

To search for organisations customers.

SQL SELECT query:

```
SELECT CName AS "Customer", organisationName "Organisation" FROM CUSTOMER
WHERE organisationName IS NOT NULL;
```

Output/Result of the Query:

	‡ Customer	Organisation	
1	Sharmaine Valle	COTTON ON	
2	Althea Macasaol	PIZZA HUT	

PURPOSE OF THE QUERY 4:

To find out the average sale of each month (display by highest average to lowest average).

SQL SELECT query:

```
SELECT TO_CHAR(SessionDate, 'Month') AS Month, AVG(ChargeAmount) AS "Average Charge" FROM PhotographySession GROUP BY TO_CHAR(SessionDate, 'Month') ORDER BY "Average Charge" DESC;
```

Output/Result of the Query:

	⊕ MONTH	♦ Average Charge
1	August	230
2	July	230
3	May	150
4	June	150

To search for the most used location in photography sessions.

SQL SELECT query:

```
SELECT l.LocationName AS "Location", COUNT(*) AS "Session Count"
FROM PhotographySession s
JOIN Location l ON s.SessionID = l.SessionID
GROUP BY l.LocationName
ORDER BY "Session Count" DESC
FETCH FIRST 1 ROWS ONLY;
```

Output/Result of the Query:

