


COMP1350: INTRODUCTION TO DATABASE DESIGN AND MANAGEMENT

ASSIGNMENT TWO


TASK TWO

```
213      -- TASK TWO
214 •    Select VillaID, VillaName, CONCAT("$", VillaCostPerDay)
215      From Villa
216      Order By VillaCostPerDay DESC;
```

Result Grid			
Filter Rows: <input type="text"/>			
Export: 			
Wrap Cell Content: IA			
	VillaID	VillaName	CONCAT("\$", VillaCostPerDay)
▶	V19	Jungle Woods	\$1150
	V18	The Alps	\$1050
	V17	Beach Grove	\$950
	V16	RiversideRidgeMount	\$850
	V15	Silver Springs	\$750
	V14	Picadilly Green	\$650



TASK THREE

```
218      -- TASK THREE
219 •    Select VillaID, DateFrom 'Check In', DateTo 'Check Out', datediff(DateTo, DateFrom) 'Number of Days'
220      From Villa_Reservation;
221
```

Result Grid				
Filter Rows: <input type="text"/>				
Export: 				
Wrap Cell Content: IA				
	VillaID	Check In	Check Out	Number of Days
▶	V14	2020-12-01	2020-12-06	5
	V14	2020-12-14	2020-12-16	2
	V15	2020-12-13	2020-12-20	7
	V16	2020-12-10	2020-12-20	10
	V16	2020-12-15	2020-12-20	5
	V16	2020-12-15	2020-12-25	10
	V17	2020-12-08	2020-12-15	7
	V17	2020-12-16	2020-12-25	9
	V19	2020-12-01	2020-12-06	5
	V19	2020-12-07	2020-12-09	2
	V19	2020-12-14	2020-12-17	3
	V19	2020-12-18	2020-12-28	10



TASK FOUR

```
222      -- TASK FOUR
223 •    SELECT vt.VillaTypeName, v.VillaName, v.VillaCostPerDay
224      FROM VillaType vt, Villa v
225      WHERE vt.VillaTypeID = v.VillaTypeID
226      AND vt.VillaTypeName LIKE '%Two Bedroom%';
227
```

Result Grid			
Filter Rows: <input type="text"/>			
Export:  Wrap Cell Content: 			
	VillaTypeName	VillaName	VillaCostPerDay
▶	Two Bedroom River View with a Pool	RiversideRidgeMount	850
	Two Bedroom Beachfront with a Pool	Beach Grove	950

TASK FIVE

```
228      -- TASK FIVE
229 •    SELECT DISTINCT r.ReservationID
230      FROM reservation r, payment p
231      WHERE r.ReservationID = p.ReservationID AND
232      p.PaymentDate BETWEEN r.ReservationDate AND DATE_ADD(r.ReservationDate, INTERVAL 5 DAY);
233
```

Result Grid	
Filter Rows: <input type="text"/>	
Export:  Wrap Cell Content: 	
	ReservationID
▶	R321
	R322
	R323
	R324
	R325
	R326
	R327
	R328
	R329
	R330

TASK SIX

```

234  -- TASK SIX
235  •  SELECT CustomerName, CustomerPhNumber
236  FROM customer
237  WHERE CustomerID IN (
238  SELECT r.CustomerID
239  FROM reservation r
240  WHERE r.ReservationDate BETWEEN DATE_SUB(CURDATE(), INTERVAL 6 MONTH) AND CURDATE()
241  );

```

Result Grid		
Filter Rows:	Export:	Wrap Cell Content:
CustomerName	CustomerPhNumber	
▶ Dougie Jive	491570156	
Lennie Krueger	491570157	
Cindy Cline	491570158	
Honey Rossi	491570159	
Willa Sweeney	491570110	
Zaki Ibarra	406659528	
Odin Salas	470103820	
Klara Stevenson	478010005	
Lochlan Jarrow	470108612	
Lola-Mae Timms	490110987	

TASK SEVEN

```

243  -- TASK SEVEN
244  •  SELECT CustomerName, CustomerPhNumber
245  FROM customer c
246  JOIN reservation r USING (CustomerID)
247  WHERE r.ReservationDate BETWEEN DATE_SUB(CURDATE(), INTERVAL 6 MONTH) AND CURDATE();

```

Result Grid		
Filter Rows:	Export:	Wrap Cell Content:
CustomerName	CustomerPhNumber	
▶ Dougie Jive	491570156	
Lennie Krueger	491570157	
Cindy Cline	491570158	
Honey Rossi	491570159	
Willa Sweeney	491570110	
Zaki Ibarra	406659528	
Odin Salas	470103820	
Klara Stevenson	478010005	
Lochlan Jarrow	470108612	
Lola-Mae Timms	490110987	

TASK EIGHT

```

249  -- TASK EIGHT
250  •  SELECT DISTINCT CustomerName
251  FROM customer c, reservation r, villa_reservation vr, villa v
252  WHERE c.CustomerID = r.CustomerID AND r.ReservationID = vr.Villa_ReservationID
253  AND vr.VillaID = v.VillaID
254  AND v.VillaCostPerDay < 1000;
255

```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	CustomerName			
▶	Dougie Jive			
	Willi Sweeney			
	Lochlan Jarrow			
	Honey Rossi			
	Odin Salas			
	Klara Stevenson			
	Cindy Cline			

TASK NINE

```

256  -- TASK NINE
257  •  SELECT ReservationID, SUM(PaymentAmount)
258  FROM payment
259  GROUP BY ReservationID
260  ORDER BY SUM(PaymentAmount) DESC;

```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	ReservationID	SUM(PaymentAmount)		
▶	R330	11500		
	R328	8550		
	R324	8500		
	R323	6650		
	R329	5250		
	R327	4250		
	R326	3450		
	R321	3250		
	R322	2300		
	R325	1300		

TASK TEN

```

261
262 -- TASK TEN
263 • SELECT r.ReservationID, r.ReservationDate, COUNT(vr.Villa_ReservationID) 'No. of Villas'
264 FROM reservation r, villa_reservation vr
265 WHERE r.ReservationID = vr.Villa_ReservationID
266 GROUP BY r.ReservationID

```

Result Grid			
Filter Rows: <input type="text"/>			
Export: Wrap Cell Content:			
	ReservationID	ReservationDate	No. of Villas
▶	R321	2020-06-12	2
	R328	2020-07-01	2

TASK ELEVEN

```

269 -- TASK ELEVEN
270 • SELECT *
271 FROM villa
272 WHERE VillaID NOT IN (
273 SELECT VillaID
274 FROM villa_reservation
275 );

```

Result Grid				
Filter Rows: <input type="text"/>				
Edit: Export/Import:				
	VillaID	VillaName	VillaCostPerDay	VillaTypeID
▶	V18	The Alps	1050	T5
*	NULL	NULL	NULL	NULL

TASK TWELVE

```

277  -- TASK TWELVE
278  •  SELECT *
279  FROM payment
280  WHERE PaymentAmount > 1500
281  AND (MONTH(PaymentDate) = 1 OR YEAR(PaymentDate) IN (2018, 2020))
282  ORDER BY PaymentAmount DESC;

```

PaymentID	ReservationID	PaymentDate	PaymentAmount
P309	R330	2020-07-05	11500
P307	R328	2020-07-01	8550
P303	R324	2020-06-21	8500
P302	R323	2020-06-18	6650
P308	R329	2020-07-02	5250
P306	R327	2020-06-30	4250
P305	R326	2020-06-29	3450
P300	R321	2020-06-12	3250
P301	R322	2020-06-14	2300
NULL	NULL	NULL	NULL

TASK THIRTEEN

```

284  -- TASK THIRTEEN
285  •  SELECT p.*
286  FROM payment p, customer c, reservation r, villa_reservation vr, villa v, villatype vt
287  WHERE p.ReservationID = r.ReservationID
288  AND r.CustomerID = c.CustomerID
289  AND r.ReservationID = vr.Villa_ReservationID
290  AND vr.VillaID = v.VillaID
291  AND v.VillaTypeID = vt.VillaTypeID
292  AND vt.VillaTypeName LIKE '%one bedroom%'
293  AND SUBSTRING_INDEX(c.CustomerName, ' ', -1) LIKE 'J%';

```

PaymentID	ReservationID	PaymentDate	PaymentAmount
P300	R321	2020-06-12	3250
P308	R329	2020-07-02	5250

TASK FOURTEEN

```

295  -- TASK FOURTEEN
296  •  SELECT vr.Villa_ReservationID, DATEDIFF(vr.DateTo, vr.DateFrom) * v.VillaCostPerDay 'Total Cost'
297  FROM villa_reservation vr, villa v
298  WHERE vr.VillaID = v.VillaID
299  AND DATEDIFF(vr.DateTo, vr.DateFrom) * v.VillaCostPerDay > 10000;
300

```

Villa_ReservationID	Total Cost
R330	11500

TASK FIFTEEN

```

301      -- TASK FIFTEEN
302      •      SELECT c.CustomerName, a.ActivityCost
303              FROM customer c, reservation r, activitybooking ab, activity a
304              WHERE c.CustomerID = r.CustomerID
305                  AND r.ReservationID = ab.ReservationID
306                  AND ab.ActivityID = a.ActivityID
307                  AND a.ActivityType = 'O'
308                  AND a.ActivityCost < (
309                      SELECT AVG(a.ActivityCost)
310                      FROM Activity a
311                      WHERE a.ActivityType = 'O');
312

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	CustomerName	ActivityCost
▶	Dougie Jive	120
	Honey Rossi	100
	Odin Salas	301

TASK SIXTEEN

```

313      -- TASK SIXTEEN
314      •      SELECT c.CustomerName, a.ActivityID, ab.ReservationID, ab.ActivityTime 'Time of the Activity Reservation',
315              a.ActivityName 'Name of the Activity', s.StaffName
316              FROM Customer c, activitybooking ab, activity a, staff s, supportstaff ss, reservation r
317              WHERE ab.ActivityID = a.ActivityID
318                  AND ab.GuideID = s.StaffID
319                  AND s.StaffID = ss.StaffID
320                  AND ab.ActivityID = ss.ActivityID
321                  AND ab.ReservationID = ss.ReservationID
322                  AND ab.ActivityTime = ss.ActivityTime
323                  AND c.customerID = r.CustomerID
324                  AND r.ReservationID = ab.ReservationID
325                  AND ab.ActivityTime BETWEEN '12:00:00' and '16:00:00'
326              GROUP BY a.ActivityID, ab.ReservationID, ab.ActivityTime, a.ActivityName, s.StaffName;
327

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	CustomerName	ActivityID	ReservationID	Time of the Activity Reservation	Name of the Activity	StaffName
--	--------------	------------	---------------	----------------------------------	----------------------	-----------

TASK SEVENTEEN

```

325  -- TASK SEVENTEEN
326  • SELECT s.StaffName , m.StaffName 'Manager'
327  FROM staff s, staff m
328  WHERE s.ManagerID = m.StaffID
329  GROUP BY m.StaffName
330  HAVING COUNT(s.StaffName) >= 2;
331

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	StaffName	Manager
▶	Md Townsend	Dora Wagner
	Allen Henderson	Sioned Warner

TASK EIGHTEEN

```

346  -- TASK EIGHTEEN
347  • SELECT a.ActivityID, ab.ReservationID, ab.ActivityTime 'Time of the Activity Reservation',
348  a.ActivityName 'Name of the Activity', s.StaffName
349  FROM activitybooking ab, activity a, staff s, supportstaff ss
350  WHERE ab.ActivityID = a.ActivityID
351  AND ab.GuideID = s.StaffID
352  AND s.StaffID = ss.StaffID
353  AND ab.ActivityID = ss.ActivityID
354  AND ab.ReservationID = ss.ReservationID
355  AND ab.ActivityTime = ss.ActivityTime
356  GROUP BY a.ActivityID, ab.ReservationID, ab.ActivityTime, a.ActivityName, s.StaffName;
357

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	ActivityID	ReservationID	Time of the Activity Reservation	Name of the Activity	StaffName
▶	A10	R330	2020-12-19 16:00:00	Scuba Diving	Ryder William

TASK NINETEEN

```

344  -- TASK NINETEEN
345  • SELECT p.PackageActivityID, a.ActivityName, a.ActivityCost, p.ChildActivityID 'Sub Activity ID',
346  (SELECT sub.ActivityName
347  FROM activity sub
348  WHERE sub.ActivityID = p.ChildActivityID) 'Sub Activity Name',
349  (SELECT MIN(sub.ActivityCost)
350  FROM activity sub
351  WHERE sub.ActivityID = p.ChildActivityID
352  GROUP BY p.PackageActivityID) 'Sub Activity Cost'
353  FROM activity a, package p
354  WHERE a.ActivityID = p.PackageActivityID;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	PackageActivityID	ActivityName	ActivityCost	Sub Activity ID	Sub Activity Name	Sub Activity Cost
▶	A01	Kayaking	120	A02	Horse Riding	500
	A07	Golf	301	A03	Basket Ball	100
	A08	Squash	100	A04	Tennis	100
	A05	Boxing	350	A06	Indoor Hockey	130
	A09	Indoor Cycling	500	A10	Scuba Diving	500

TASK TWENTY

```

356      -- TASK TWENTY
357 •    SELECT r.ReservationID,
358      CONCAT('$', FORMAT(IFNULL(
359      (SELECT ActivityCost*NumPeople
360      FROM activity a, activitybooking ab
361      WHERE ab.ReservationID = r.ReservationID
362      AND ab.ActivityID = a.ActivityID
363      ), 0), 2)) 'Activity Cost',
364      CONCAT('$', FORMAT(IFNULL(
365      (SELECT VillaCostPerDay*datediff(DateTo,DateFrom)
366      FROM villa_reservation vr, villa v
367      WHERE vr.Villa_ReservationID = r.ReservationID
368      AND vr.VillaID = v.VillaID
369      ), 0), 2)) 'Villa Cost'
370      FROM reservation r
371      GROUP BY r.ReservationID;

```

	ReservationID	Activity Cost	Villa Cost
►	R321	\$480.00	\$5,750.00
	R322	\$3,000.00	\$9,200.00
	R323	\$200.00	\$6,650.00
	R324	\$500.00	\$8,500.00
	R325	\$3,500.00	\$1,300.00
	R326	\$390.00	\$3,450.00
	R327	\$2,408.00	\$4,250.00
	R328	\$400.00	\$8,500.00
	R329	\$2,500.00	\$5,250.00
	R330	\$1,000.00	\$11,500.00