420-D20

Assignment 1 – Appendices

# Appendix I - hvk\_bill\_vw Test Cases

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Scenarios** | | | | | **Table Data** | | | | | | | | | |
|  | **Extra services** | | | | **Num**  **dogs in**  **res.** |  |  |  |  |  |  |  |  |  |  |
| **TC #** | **daily** | **with**  **frequency** | **Different**  **price –**  **diff sizes** | **Same**  **price**  **- all sizes** | **Res.**  **Num** | **Owner**  **num** | **start**  **date** | **end**  **date** | **Pet**  **res\_num** | **pet**  **num** | **dog**  **size** | **Service**  **desc** | **Freq** | **Daily**  **Rate** |
| 1 | 0 | 0 | n/a | n/a | 1 | 105 | 2 | 01-Jan-16 | 20-Jan-16 | 226 | 6 | M | Boarding | Daily | 11 |
| 2 | >0 | 0 | > 0 | 0 | 1 | 102 | 3 | 16-Sep-15 | 18-Sep-15 | 223 | 13 | L | Boarding | Daily | 12 |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Walk | Daily | 4 |
| 3 | >0 | > 0 | > 0 | > 0 | 1 | 103 | 2 | 01-Oct-15 | 05-Nov-15 | 224 | 6 | M | Boarding | Daily | 11 |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Playtime | Daily | 2 |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Grooming | 2 | 3 |
| 4 | >0 | > 0 | > 0 | > 0 | > 1 | 106 | 2 | 10-Apr-16 | 17-Apr-16 | 304 | 3 | L | Boarding | Daily | 12 |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Playtime | Daily | 2 |
|  |  |  |  |  |  |  |  |  |  | 305 | 6 | M | Boarding | Daily | 11 |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Playtime | Daily | 2 |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Grooming | 1 | 3 |

**View Output:**

| **tc #** | **reservation**  **number** | **Owner Number** | **pet Res**  **number** | **service** | **daily rate** | **frequency** | **total**  **charge** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 105 | 2 | 226 | Boarding | 11 | 19 | 209 |
| 2 | 102 | 3 | 223 | Boarding | 12 | 2 | 24 |
|  | 102 | 3 | 223 | Walk | 4 | 2 | 8 |
| 3 | 103 | 2 | 224 | Boarding | 11 | 35 | 385 |
|  | 103 | 2 | 224 | Playtime | 2 | 35 | 70 |
|  | 103 | 2 | 224 | Grooming | 3 | 2 | 6 |
| 4 | 106 | 2 | 304 | Boarding | 12 | 7 | 84 |
|  | 106 | 2 | 304 | Playtime | 2 | 7 | 14 |
|  | 106 | 2 | 305 | Boarding | 11 | 7 | 77 |
|  | 106 | 2 | 305 | Playtime | 2 | 7 | 14 |
|  | 106 | 2 | 305 | Grooming | 3 | 1 | 3 |

# Appendix II - Billing Test Cases

**Test Case Scenarios**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Discount** | | | **Number of Extra services** | |
| **TC**  **#** | **shared** | **own food** | **multi-pet** | **daily extra**  **service** | **extra service**  **with a frequency** |
| 1 | false | false | false | 0 | 0 |
| 2 | false | false | false | >0 | 0 |
| 3 | false | false | false | >0 | > 0 |
| 4 | true | false | false | >0 | > 0 |
| 5 | false | true | false | >0 | 0 |
| 6 | true | true | false | 0 | 0 |
| 7 | true | true | true | >0 | > 0 |
| 8 | Invalid reservation number | | | | |

**Sample Table Data**

| **tc #** | **reservation**  **number** | **pet**  **res**  **num** | **service** | **daily**  **rate** | **freq** | **total**  **charge** | **disc**  **type** | **disc**  **%** | **discount**  **applied to** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 105 | 226 | Boarding | 11 | 19 | 209 | - | - | - |
| 2 | 109 | 228 | Boarding | 10 | 17 | 170 |  |  |  |
|  | 109 | 228 | Walk | 2 | 17 | 34 |  |  |  |
| 3 | 114 | 229 | Boarding | 10 | 3 | 30 |  |  |  |
|  | 114 | 229 | Walk | 2 | 3 | 6 |  |  |  |
|  | 114 | 229 | Grooming | 2 | 1 | 2 |  |  |  |
| 4 | 106 | 304 | Boarding | 12 | 7 | 84 |  |  |  |
|  | 106 | 304 | Playtime | 2 | 7 | 14 |  |  |  |
|  | 106 | 305 | Boarding | 11 | 7 | 77 |  |  |  |
|  | 106 | 305 | Playtime | 2 | 7 | 14 |  |  |  |
|  | 106 | 305 | Grooming | 3 | 1 | 3 |  |  |  |
|  | 106 | 304 |  |  |  |  | shared | .1 | Daily Rate |
|  | 106 | 305 |  |  |  |  | shared | .1 | Daily Rate |
| 5 | 802 | 404 | Boarding | 10 | 6 | 60 |  |  |  |
|  | 802 | 405 | Boarding | 12 | 6 | 72 |  |  |  |
|  | 802 | 405 | Walk | 4 | 6 | 24 |  |  |  |
|  | 802 | 405 |  |  |  |  | own food | .1 | Daily Rate |
| 6 | 800 | 401 | Boarding | 11 | 6 | 66 |  |  |  |
|  | 800 | 400 | Boarding | 12 | 6 | 72 |  |  |  |
|  | 800 | 401 |  |  |  |  | Shared | 0.1 | Daily Rate |
|  | 800 | 400 |  |  |  |  | Own Food | 0.1 | Daily Rate |
|  | 800 | 400 |  |  |  |  | Shared | 0.1 | Daily Rate |
| 7 | 110 | 306 | Boarding | 12 | 17 | 204 |  |  |  |
|  | 110 | 306 | Walk | 4 | 17 | 68 |  |  |  |
|  | 110 | 306 | Grooming | 4 | 1 | 4 |  |  |  |
|  | 110 | 306 |  |  |  |  | shared | .1 | Daily Rate |
|  | 110 | 306 |  |  |  |  | own food | .1 | Daily Rate |
|  | 110 | 306 |  |  |  |  | multiple | .07 | Total |
|  | 110 | 307 | Boarding | 12 | 17 | 204 |  |  |  |
|  | 110 | 307 | Walk | 4 | 17 | 68 |  |  |  |
|  | 110 | 307 | Grooming | 4 | 1 | 4 |  |  |  |
|  | 110 | 307 |  |  |  |  | shared | .1 | Daily Rate |
|  | 110 | 307 |  |  |  |  | own food | .1 | Daily Rate |
|  | 110 | 307 |  |  |  |  | multiple | .07 | Total |
|  | 110 | 308 | Boarding | 10 | 17 | 170 |  |  |  |
|  | 110 | 308 | Medication | 1 | 17 | 17 |  |  |  |
|  | 110 | 308 |  |  |  |  | multiple | .07 | Total |

RESERVATION\_NUMBER PET\_RES\_NUMBER DISCOUNT\_NUMBER DISCOUNT\_DESCRIPTION DISCOUNT\_PERCENTAGE DISCOUNT\_TYPE

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 800 | 401 | 1 | Shared Run | 0.1 | D |
| 800 | 400 | 3 | Own Food | 0.1 | D |
| 800 | 400 | 1 | Shared Run | 0.1 | D |

**Test Data Script**

You will need to run this script to configure your HVK database to match these test cases in order to validate your program block against this test data

--- needed for Assignment #1 test cases

--- setup for TC# 5

Insert into HVK\_PET\_RESERVATION\_DISCOUNT (DISC\_DISCOUNT\_NUMBER,PR\_PET\_RES\_NUMBER) values (3,400);

Insert into HVK\_PET\_RESERVATION\_DISCOUNT (DISC\_DISCOUNT\_NUMBER,PR\_PET\_RES\_NUMBER) values (3,405);

--- setup for #6

Insert into HVK\_PET\_RESERVATION\_DISCOUNT (DISC\_DISCOUNT\_NUMBER,PR\_PET\_RES\_NUMBER) values (1,400);

Insert into HVK\_PET\_RESERVATION\_DISCOUNT (DISC\_DISCOUNT\_NUMBER,PR\_PET\_RES\_NUMBER) values (1,401);

--- setup for TC 7

Insert into HVK\_RESERVATION\_DISCOUNT (DISC\_DISCOUNT\_NUMBER,RES\_RESERVATION\_NUMBER) values (2,110);

Insert into HVK\_MEDICATION (MEDICATION\_NUMBER,MEDICATION\_NAME,MEDICATION\_DOSAGE,MEDICATION\_INSTRUCTIONS,MEDICATION\_END\_DATE,PR\_PET\_RES\_NUMBER) values (10,'Medicam','15 kg',null,null,308);

Insert into HVK\_PET\_FOOD (PET\_FOOD\_FREQUENCY,PET\_FOOD\_QUANTITY,PR\_PET\_RES\_NUMBER,FOOD\_FOOD\_NUMBER) values (1,'0.5 cup',308,7);

Insert into HVK\_PET\_RESERVATION (PET\_RES\_NUMBER,PET\_PET\_NUMBER,RES\_RESERVATION\_NUMBER,RUN\_RUN\_NUMBER,PR\_SHARING\_WITH) values (308,10,110,null,null);

Insert into HVK\_PET\_RESERVATION\_SERVICE (SERVICE\_FREQUENCY,PR\_PET\_RES\_NUMBER,SERV\_SERVICE\_NUMBER) values (null,308,1);

Insert into HVK\_PET\_RESERVATION\_SERVICE (SERVICE\_FREQUENCY,PR\_PET\_RES\_NUMBER,SERV\_SERVICE\_NUMBER) values (null,308,4);

**Expected Output**

| **TC**  **#** | **res**  **num** | **subtotal** | **discount total** | **discounted subtotal** | **GST** | **grand total** |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | 105 | 209 | 0 | 209 | 209 \* .05 = 10.45 | 209 + 10.48 = 219.45 |
| 2 | 109 | 170 +34 = 204 | 0 | 204 | 204 \* .05 = 10.2 | 204 + 10.2 = 214.2 |
| 3 | 114 | 30 + 6 + 2 = 38 | 0 | 38 | 38 \* .05 = 1.9 | 38 + 1.9 = 39.9 |
| 4 | 106 | 84 + 14 + 77 + 14 + 3 = 192 | Shared run pet res 305: 77 \* 0.1 = 7.7  Shared run pet res 305: 84 \* 0.1 = 8.4  Shared Run total: 16.1  Total discount: 16.1 | 192 – 16.1 = 175.9 | 175.9 \* .05 = 8.795 | 175.9 + 8.795 = 184.70 |
| 5 | 802 | 60 + 72 + 24 = 156 | Own food pet res 405: 72 \* .1 = 7.2  Own food total: 7.2  Total discount: 7.2 | 156 – 7.2 = 148.8 | 148.8 \* .05 = 7.44 | 148.8 + 7.44 = 156.24 |
| 6 | 800 | 66 + 72 = 138 | Shared run pet res 401:  66 \* .1 = 6.6  Shared run pet res 400:  72 \* .1 = 7.2  Shared run total: 13.8  Own food pet res 400:  72 \* .1 = 7.2  Total discount: 21.0 | 138 – 21 = 117 | 117 \* .05 = 5.85 | 117 + 5.85 = 122.85 |
| 7 | 110 | 204 + 68 + 4 + 204 + 68 + 4 + 170 + 17 = 739 | Shared run pet res 306:  204 \* .1 = 20.4  Shared run pet res 307:  204 \* .1 = 20.4  Shared Run total: 40.8  Own food pet res 306:  204 \* .1 = 20.4  Own food pet res 307:  204 \* .1 = 20.4  Own food total: 40.8  Multiple Pets: 739 \* .07 = 51.73  Total discount: 40.8 + 40.8 + 51.73 = 133.33 | 739 – 133.33 = 605.67 | 605.67 \* .05 =  30.2835 | 605.67 + 30.28 = 635.95 |
| 8 | 999 | ERROR: There is no billing information for reservation 999. | | | | |