**ITS 26000 – Applied Database Tech**

**Lab 07 – (100 points)**

**Use SQL to complete the following exercises.**

### **KimTay Pet Supplies:**

* 1. For the below example, the two ways are listed below to select the invoice information.
* SELECT INVOICE\_NUM, INVOICE\_DATE

FROM INVOICES

WHERE INVOICE\_NUM IN (SELECT INVOICE\_NUM

FROM INVOICE\_LINE

WHERE (ITEM\_ID =‘KH81’) );

* SELECT INVOICE\_NUM, INVOICE\_DATE

FROM INVOICES

WHERE EXISTS (SELECT\*

FROM INVOICE\_LINE

WHERE (INVOICES.INVOICE\_NUM = INVOICE\_

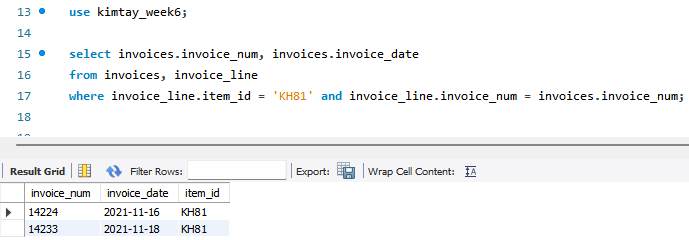
LINE.INVOICE\_NUM)AND(ITEM\_ID =‘KH81’);

Write the above query by using joins between the tables. (10 points)

select invoices.invoice\_num, invoices.invoice\_date

from invoices, invoice\_line

where invoice\_line.item\_id = 'KH81' and invoice\_line.invoice\_num = invoices.invoice\_num;

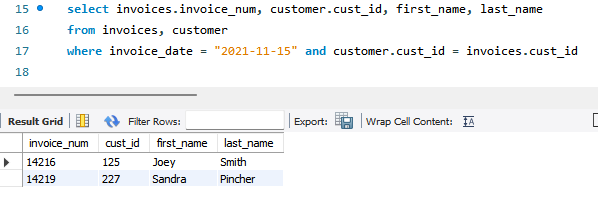


* 1. For each invoice placed on November 15, 2021, list the invoice number along with the ID, first name, and last name of the customer for which the invoice was created. (10 points)

select invoices.invoice\_num, customer.cust\_id, first\_name, last\_name

from invoices, customer

where invoice\_date = "2021-11-15" and customer.cust\_id = invoices.cust\_id



* 1. Use the IN operator to find the ID, first name, and last name of each customer for which as invoice was created on November 15, 2021. (5 points)

select customer.cust\_id, first\_name, last\_name

from customer

where customer.cust\_id IN (select cust\_id

from invoices

where invoice\_date = "2021-11-15")

텍스트이(가) 표시된 사진

자동 생성된 설명

* 1. Use the EXISTS operator to find the ID, first name, and last name of each customer for which as invoice was created on November 15, 2021. (5 points)

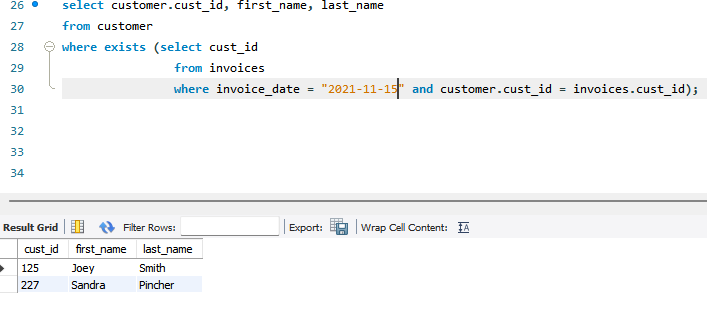
select customer.cust\_id, first\_name, last\_name

from customer

where exists (select cust\_id

from invoices

where invoice\_date = "2021-11-15" and customer.cust\_id = invoices.cust\_id);



* 1. Find the ID, first name, and last name of each customer for which an invoice was not created on November 15, 2021. (10 points)

select customer.cust\_id, first\_name, last\_name

from customer, invoices

where invoices.invoice\_date <> '2021-11-15' and invoices.cust\_id = customer.cust\_id;

텍스트이(가) 표시된 사진

자동 생성된 설명

* 1. Use a subquery to find the sales rep ID, first name, and last name of each sales rep who represents at least one customer with a credit limit of $500. List each sales rep only once in the results. (10 points)

select a.rep\_id, a.first\_name, a.last\_name

from sales\_rep as a

where rep\_id in (select distinct(rep\_id)

from customer

where credit\_limit = 500);

텍스트이(가) 표시된 사진

자동 생성된 설명

* 1. Use joins to find the sales rep ID, first name, and last name of each sales rep who represents at least one customer with a credit limit of $500. List each sales rep only once in the results. (10 points)

select distinct(a.rep\_id), a.first\_name, a.last\_name

from sales\_rep as a, customer as b

where b.rep\_id = a.rep\_id and b.credit\_limit = 500;

텍스트이(가) 표시된 사진

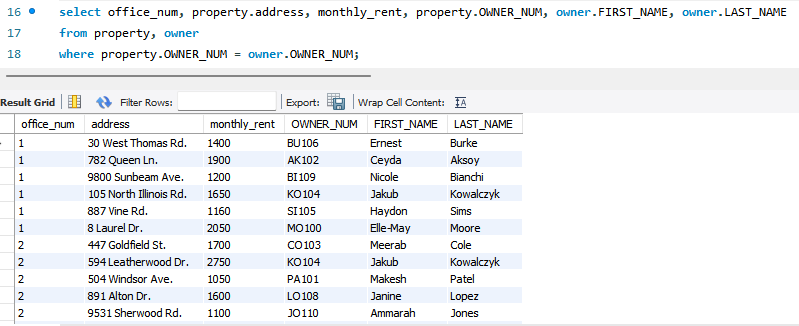
자동 생성된 설명

1. **StayWell Student Accommodation:**
   1. For every property, list the management office number, address, monthly rent, owner number, owner’s first name, and owner’s last name. (10 points)

select office\_num, property.address, monthly\_rent, property.OWNER\_NUM, owner.FIRST\_NAME, owner.LAST\_NAME

from property, owner

where property.OWNER\_NUM = owner.OWNER\_NUM;



* 1. For every completed or open service request, list the property ID, description, and status. (10 points)

select property\_id, description, status

from service\_request

where status in ("Open", "Completed");

텍스트이(가) 표시된 사진

자동 생성된 설명

* 1. List the first and last names of all owners who own a two-bedroom property. Use the IN operator in your query. (10 points)

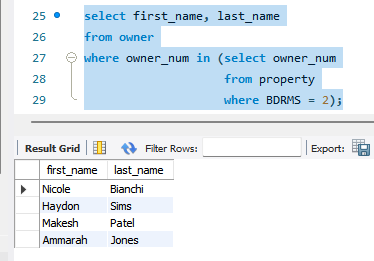
select first\_name, last\_name

from owner

where owner\_num in (select owner\_num

from property

where BDRMS = 2);



* 1. List the first and last names of all owners who own a two-bedroom property. Use the EXISTS operator in your query. (10 points)

select first\_name, last\_name

from owner

where exists (select owner\_num

from property

where BDRMS = 2 and owner.owner\_num = property.OWNER\_NUM);

텍스트이(가) 표시된 사진

자동 생성된 설명

**Deliverables**: Document Report with the SQL statement/Query and snapshot of query, its execution and results. Either word or pdf file need to be uploaded into Brightspace in one submission