Project Cover Page

Assignment Title:	Project on A	Art Gallery DBMS				
Assignment No:	N/A		Date of Submission:	11 December 2022		
Course Title:	irse Title: INTRODUCTION TO DATABASE					
Course Code:	CSC 2108		Section:	J		
Semester:	Fall	2022-23	Course Teacher:	SIFAT RAHMAN AHONA		

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Group Name/No.:

No	Name	ID	Program	Signature
1	SHAFI BIN MAHMUD	22-45994-1	BSc [CSE]	
2	FAISHAL UDDIN HIMEL	22-45996-1	BSc [CSE]	
3	MD. TAHSIN HASIB	22-46026-1	BSc [CSE]	
4	NISHAT TASNIM	22-46034-1	BSc [CSE]	
5			Choose an item.	
6			Choose an item.	
7	7 Choose an item.			
8			Choose an item.	
9			Choose an item.	
10			Choose an item.	

Faculty use only		
FACULTYCOMMENTS		
	Marks Obtained	
	Total Marks	

CASE STUDY ON ART GALLERY:

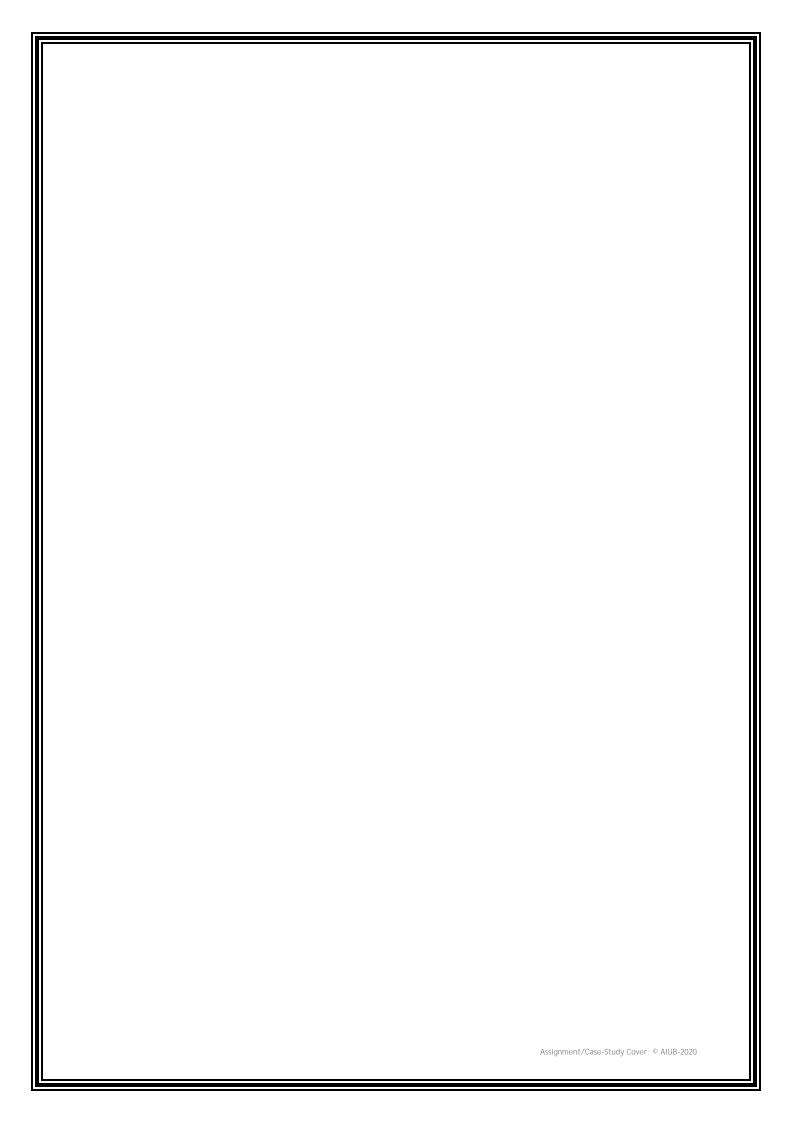
Ahare Arts is an extravagant art gallery situated in Dhanmondi, Dhaka. Artists enlisted by the gallery can showcase their arts.

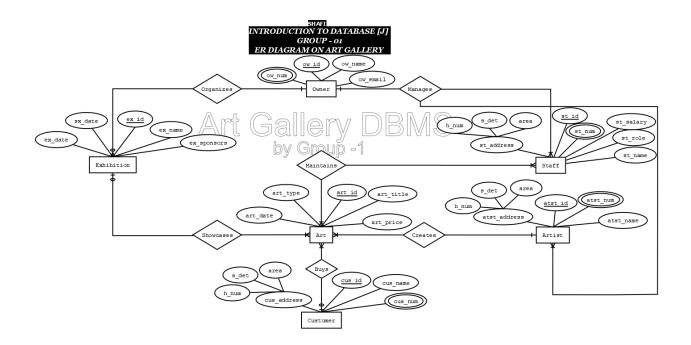
In the management system that shall be operated for it, artists are identified according to their <u>unique artist ID</u> and their names, addresses and phone numbers are also stored. Addresses are composed of house number, street details and area. The <u>unique art ID</u> of each individual art is stored in the database. The title of the art along with the date of completion of the art, type of the art and price of the art is also recorded. Artists must have created at least one art but an art can have only one artist.

The gallery administration consists of the owner and staffs. The owners have only their <u>unique owner ID</u>, name, email address and phone number stored and manages the artists and staffs of the gallery. The system records name, address, phone number, role, salary and the <u>unique staff ID</u> of each individual staff who works for the gallery. These addresses are also composed of house number, street details and area. Staffs look after and maintain the artistic integrity of the arts in the gallery through regular routine checks. Multiple staffs can maintain multiple arts. Once a routine check is successfully conducted, a routine check number is generated and recorded in the system.

The owner can organize exhibitions and arts are showcased at exhibitions. The owner may organize multiple exhibitions or may not organize any at all. Exhibitions must showcase at least one art but an art may not be showcased or can be showcased at one exhibition only. The <u>unique exhibition ID</u>, starting date, ending date, names of sponsors and the exhibition name is stored by the system.

Customers can buy the arts showcased. A receipt number is generated and stored once a customer buys an art. A customer can buy many arts but an art may not be bought or can be bought by one customer only. The <u>unique ID</u> of each customer and their name, address and phone number are also stored. The addresses of customers consist of house number, street details and area.





INTRODUCTION TO DATABASE [J]

Normalization for Group 1's project on Art Gallery

<u>NAME</u>	SHAFI BIN	<u>FAISHAL</u>	MD. TAHSIN	<u>NISHAT</u>
	<u>MAHMUD</u>	<u>UDDIN HIMEL</u>	<u>HASIB</u>	<u>TASNIM</u>
<u>ID</u>	22-45994-1	<u>22-45996-1</u>	<u>22-46026-1</u>	<u>22-46034-1</u>

 organizes (<u>ex_id</u>, ex_date, sx_date, ex_name, ex_sponsors, <u>ow_id</u>, ow_name, ow_num, ow_email)

1NF: ow_num multivalued attribute

2NF: ex_id, ex_date, ex_name, ex_sponsors, ow_id ow_id, ow_name, ow_num, ow_email

3NF: No transitive dependency <u>ex_id</u>, ex_date, sx_date, ex_name, ex_sponsors, ow_id ow_id, ow_name, ow_num, ow_email

Table: ex_id, ex_date, ex_name, ex_sponsors, ow_name ow_id, ow_name ow_num, ow_email

 showcases (<u>ex_id</u>, ex_date, sx_date, ex_name, ex_sponsors, <u>art_id</u>, art_type, art_date, art_title, art_price)

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2NF: <u>ex_id</u>, ex_date, sx_date, ex_name, ex_sponsors <u>art_id</u>, art_date, art_type, art_title, art_price, ex_id

3NF: No transitive dependency

<u>ex_id</u>, ex_date, sx_date, ex_name, ex_sponsors

<u>art_id</u>, art_date, art_type, art_title, art_price, ex_id

Table: ex_id, ex_date, ex_name, ex_sponsors

art_id, art_date, art_type, art_title, art_price, ex_id

 maintains (<u>art_id</u>, art_date, art_type, art_title, art_price, <u>st_id</u>, st_address, st_salary, st_num, st_role, st_name)

1NF: st_num multivalued attribute

2NF: <u>st_id</u>, st_address, st_salary, st_num, st_role, st_name <u>art_id</u>, art_date, art_type, art_title, art_price <u>artst_id</u>, art_id, st_id

3NF: No transitive dependency st_id, st_address, st_salary, st_num, st_role, st_name art_id, art_date, art_type, art_title, art_price artst_id, art_id, st_id

table: st_id, st_address, st_salary, st_num, st_role, st_name
art_id, art_date, art_type, art_title, art_price
artst_id, art_id, st_id

 buys (<u>art_id</u>, art_date, art_type, art_title, art_price, <u>cus_id</u>, cus_num, cus_address, cus_name)

1NF: cus_num multivalued attribute

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3NF: No transitive dependency art_id, art_date, art_ type, art_title, art_price, cus_id cus_id, cus_num, cus_address, cus_name,

Table: art_id, art_date, art_type, art_title, art_price, cus_id
cus_id, cus_name

 creates (<u>art_id</u>, art_date, art_type, art_title, art_price, <u>atst_id</u>, atst_address, atst_num, atst_name)

1NF: atst_num multivalued attribute

2NF: <u>art_id</u>, art_date, art_type, art_title, art_price, atst_id <u>atst_id</u>, atst_address, atst_num, atst_name

3NF: No transitive dependency art_id, art_title, art_price, atst_id atst_id, atst_address, atst_num, atst_name

Table: art_id, <a href="mailto:art_id"

 manages (<u>ow_id</u>, ow_name, ow_num, ow_email, <u>st_id</u>, st_address, st_salary, st_num, st_role, st_name)

1NF: ow_num multivalued attribute

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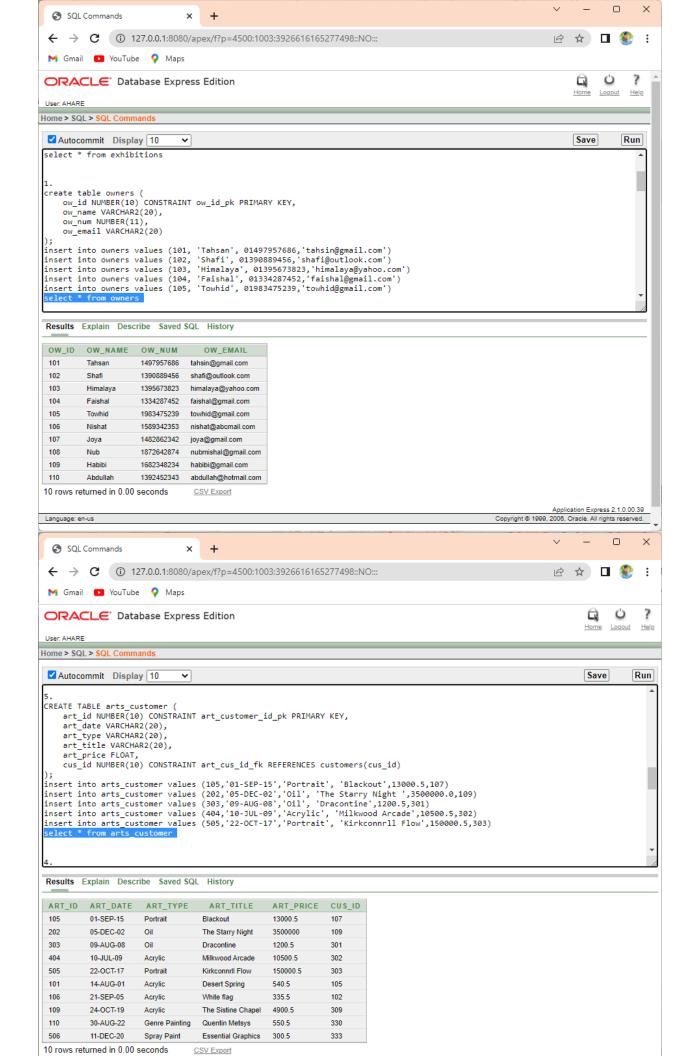
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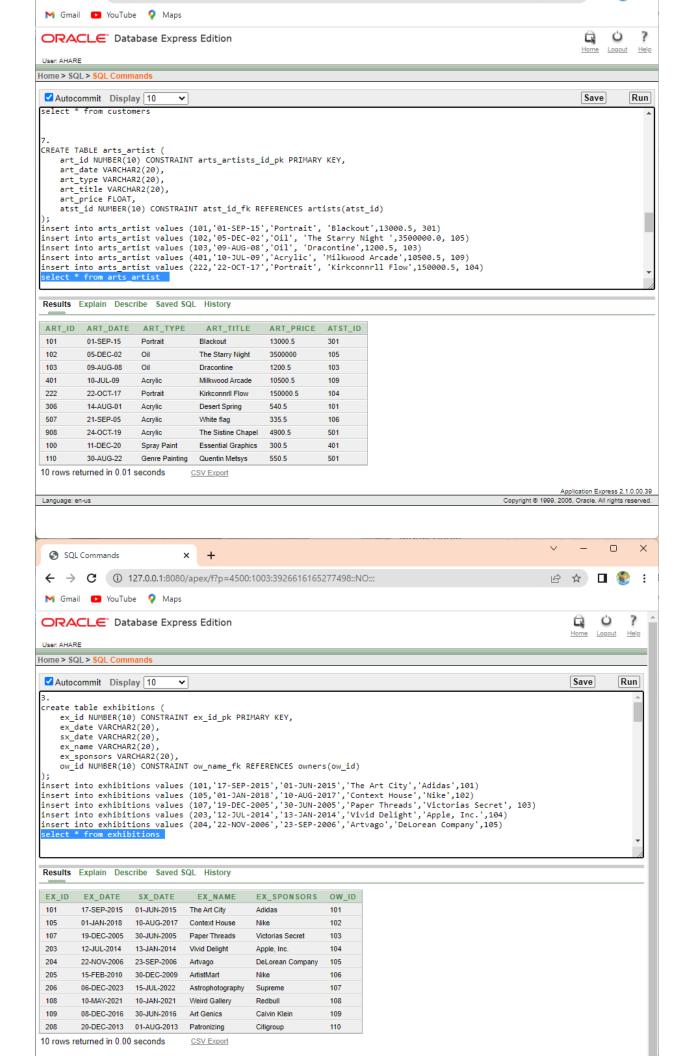
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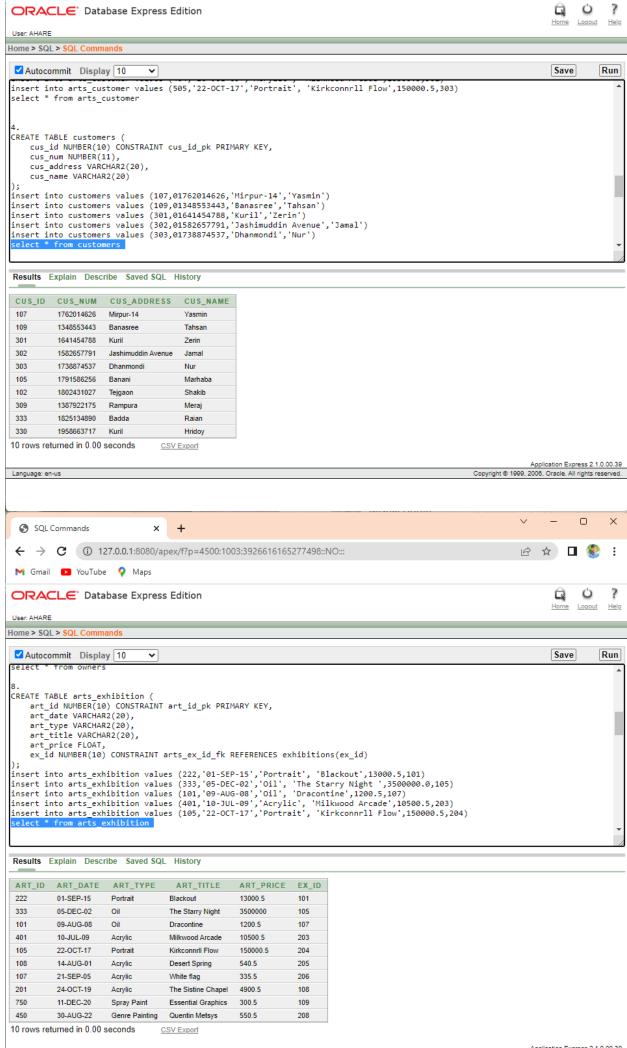
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- 6. art_id, art_date, art_type, art_title, art_price
- 7. artst_id, art_id, st_id
- 8. art_id, art_id, art_title, art_price, cus_id
- 9. cus_id, cus_num, cus_address, cus_name
- 10.art_id, art_date, art_type, art_title, art_price, atst_id
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- 12.<u>ow_id</u>, ow_name, ow_num, ow_email
- 13.<u>st_id</u>, st_address, st_salary, st_num, st_role, st_name, ow_id
- 14.ow_id, ow_name, ow_num, ow_email
- 15.<u>atst_id</u>, atst_address, atst_num, atst_name

• FINAL TABLE:

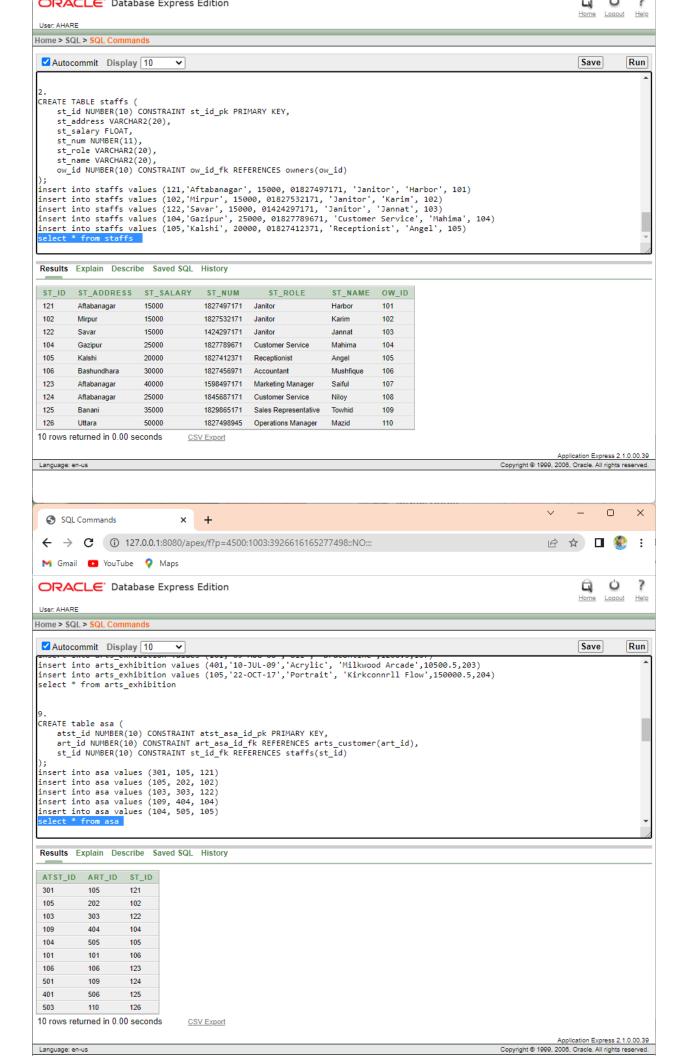
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- 5. art_id, art_date, art_ type, art_title, art_price, cus_id
- 6. cus_id, cus_num, cus_address, cus_name
- 7. art_id, art_id, art_date, art_type, art_title, art_price, atst_id
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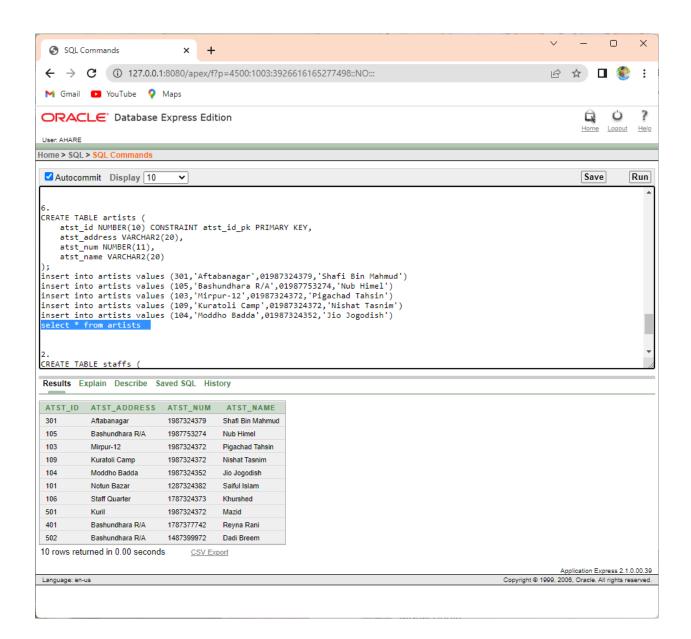


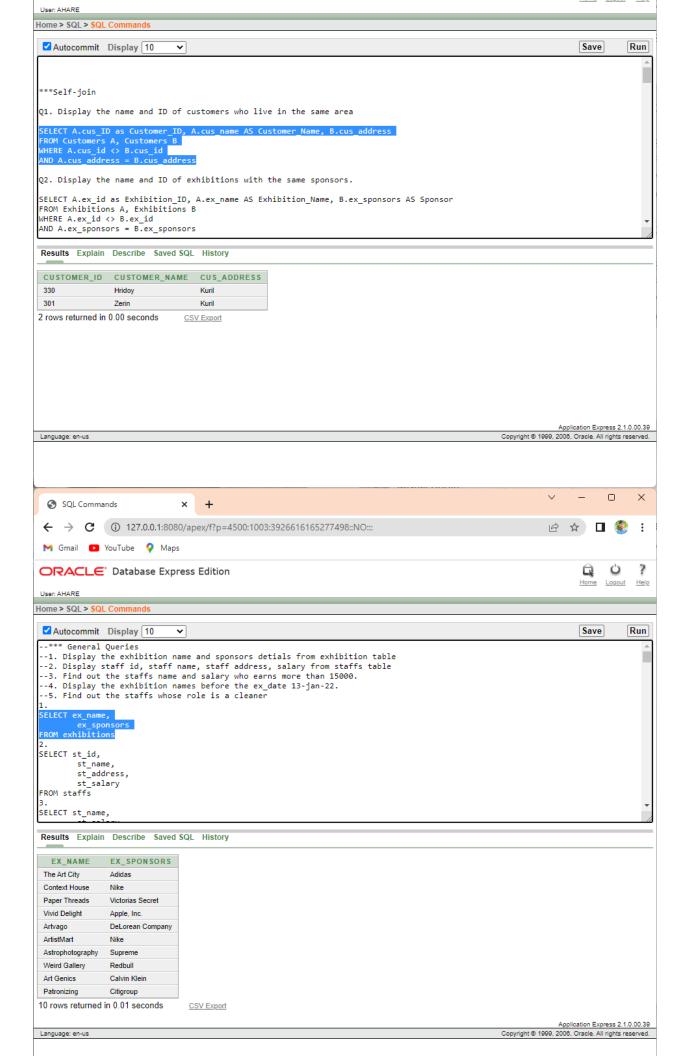


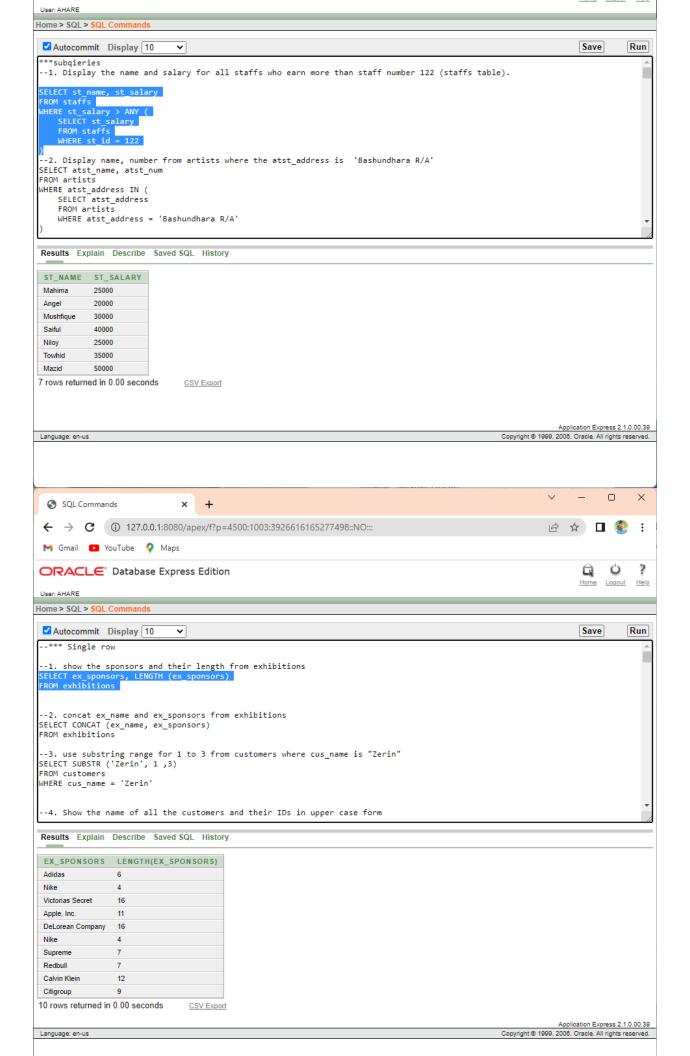


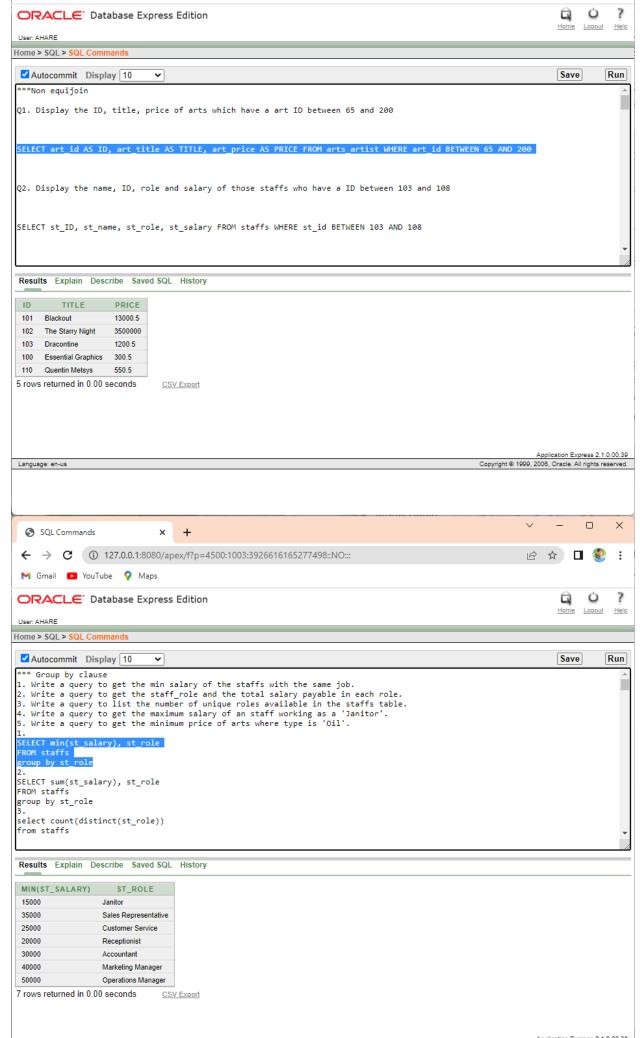
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