

Assignments Projects Exam Help

https://provationlengage (Simple SQL Queries)

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Simple SQL Queries

A SS SO provides the SELECT transmit for retrievin Later from a data have 1 p

SELECT attribute_list

FROM table/list

FROM table/list

GROUP BY attribute_list [HAVING group_condition]]

[ORDER BY attribute_list];

Note: Add We Chater Dowcoder

- The symbol * means all the attributes.
- Attribute names may be qualified with the table name (required, if attribute-names are not unique).
- Attribute and table names can be given an alias.
- DISTINCT is used for removing duplicate tuples in the query result.



SQL Queries – Select Clause

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Ī	ENROL							
	StudentID	<u>CourseNo</u>	Semester	Status	EnrolDate			
1	456	COMP2600	2016 S2	active	25/02/2016			
П	53	/ СОИР (1:00)	V2018 ST	acti /e	21/02/2015			
	-56	CO MP2400	2016 S2	active	09/03/2016			

SELE	CT * FROM E	ENROL;			1	
A	\dd '	WeC	hat r	MOC	COde	r
	StudentID	CourseNo	Semester	Status	EnrolDate	
	456	COMP2600	2016 S2	active	25/02/2016	
	458	COMP1130	2016 S1	active	25/02/2016	
	456	COMP2400	2016 S2	active	09/03/2016	



SQL Queries – Select Clause

Assignment Project Exam Help 456 COMP2600 2016 S2 active 25/02/2016 458 COMP1130 2016 S1 active 25/02/2016 456 COMP2400 2016 S2 active 09/03/2016

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SELECT ENROL. StudentID, Semester FROM ENROL;

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SELECT DISTINCT StudentID, Semester FROM ENROL;

StudentID	Semester
456	2016 S2
458	2016 S1
456	2016 S2

SID	Semester
456	2016 S2
458	2016 S1
456	2016 S2

StudentID	Semester
456	2016 S2
458	2016 S1



SQL Queries – Where Clause

Pall tuples of a relation in the FROM-clause are selected. Inspecified WHERE-clause means no condition.

- if multiple relations are specified in the FROM-clause without join conditions, the Cartesian product of relations is selected (be careful).

```
FROM STUDENT:
SELECT * FROM STUDENT, COURSE;
```

FROM STUDENT WHERE StudentID BETWEEN STOLENT WHEFE Em i il like '%@gmail.com';

- Question: Assume that we have 1000 tuples in STUDENT and 100 tuples in Course. How many tuples we will have in the results of the first two queries?
- Answer: 1st query result: 1000 tuples; 2nd query result: 100000 tuples.



Assignment Project Exam Help attribute list groups tuples for each value combination in the attribute list.

- Aggregate functions can be applied to aggregate a group of attribute values interpretations of the state of
 - COUNT returns the total number of argument values
 - AVG returns the average of argument values

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- MAX returns the maximum value of the arguments
- SUM returns the sum of the argument values
- We can use HAVING condition to add the condition on the groups.



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• The query result may look like:

COUNT	SUM	MIN		
3	16	4		



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RELECT e CourseNo, COUNT(*) AS NumberOfStudents

CROUP BY e.CourseNo;

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4 1	Stud	dentll	2	Cou	rseNo	Se	mes	er	Statu	s	Enr	olD	ate
	4	158		CON	IP2400	20)16 S2	2	activ	е	25/0	2/2	016
		158		CON	IP1130	20)16 S	1	activ	е	25/0	2/2	016
	4	156		CON	IP2400	20)16 S2	2	activ	е	25/0	2/2	016



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SELECT e CourseNo, COUNT(*) AS NumberOffStudents

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WHERE e.Senester = '2016 S2'

GROUP BY e.CourseNo;

The query result may look like; hat powcoder

Courseino	NumberOrStudents
COMP2400	120
COMP2600	100
COMP1130	150



SQL Queries – Having Clause

Assusents that is at least 120

SELECT e.CourseNo, COUNT(*) AS NumberOfStudents

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GROUP BY e. CourseNo

HAVING COUNT(*)>= 120;

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CourseNo	NumberOfStudents
COMP2400	120
COMP1130	150



SQL Queries – Order By Clause

Assignment of the order by clause allows us to sort the tuples in a query result. Help DESC indicates descending order.

We can sort the previous result by

GROUP BY e.CourseNo

ORDER BY NumberOfStudents DESC;

• This coul e urn all vultes sorted of the lamb to the fire e state is in descending order.

CourseNo	NumberOfStudents
COMP1130	150
COMP2400	120
COMP2600	100