

Assignment-4

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Batch- Data engineering(batch-1)

JOINS-

Equi joins

```
104 • SELECT student.name, student.id, record.class, record.city
105 FROM student
106 JOIN record
107 ON student.city = record.city;
108
```

100% 31:107 4 errors found

Result Grid Filter Rows: Search Export:

	name	id	class	city
▶	Gouri	5	3	Delhi
▶	Megha	4	3	Delhi
▶	Utkarsh	3	3	Delhi
▶	Gouri	5	2	Delhi
▶	Megha	4	2	Delhi
▶	Utkarsh	3	2	Delhi
▶	Gouri	5	2	Delhi
▶	Megha	4	2	Delhi
▶	Utkarsh	3	2	Delhi

```
98
99 • SELECT student.name, student.id, record.class, record.city
100 FROM student, record
101 WHERE student.city = record.city;
102
```

100% 1:102 4 errors found

Result Grid Filter Rows: Search Export:

	name	id	class	city
▶	Gouri	5	3	Delhi
▶	Megha	4	3	Delhi
▶	Utkarsh	3	3	Delhi
▶	Gouri	5	2	Delhi
▶	Megha	4	2	Delhi
▶	Utkarsh	3	2	Delhi
▶	Gouri	5	2	Delhi
▶	Megha	4	2	Delhi
▶	Utkarsh	3	2	Delhi

Result 1

Non-equi joins-

```

109 • SELECT student.name, record.id, record.city
110 FROM student, record
111 WHERE Student.id < Record.id ;
112

```

100% 1:112 4 errors found

Result Grid



Filter Rows:



Search

Export:



	name	id	city	
▶	Utkarsh	7	Delhi	
▶	Utkarsh	8	Delhi	
▶	Utkarsh	9	Delhi	
▶	Megha	7	Delhi	
▶	Megha	8	Delhi	
▶	Megha	9	Delhi	
▶	Gouri	7	Delhi	
▶	Gouri	8	Delhi	
▶	Gouri	9	Delhi	
▶				

Inner join

```

339 • SELECT *
340 FROM employees
341 INNER JOIN departments ON employees.department_id = departments.department_id;

```

100% 1:344 5 errors found

Result Grid



Filter Rows:



Search

Export:



	employee_id	employee_name	department...	salary	department...	department_na...	
▶	1	John Doe	101	60000.00	101	IT	
▶	2	Jane Smith	102	55000.00	102	HR	
▶	3	Alice Johnson	101	70000.00	101	IT	
▶	4	Bob Wilson	103	75000.00	103	Marketing	

Left join

```

343 • SELECT *
344 FROM employees
345 LEFT JOIN departments ON employees.department_id = departments.department_id;

```

100% 78:345 5 errors found

Result Grid



Filter Rows:



Search

Export:



	employee_id	employee_name	department...	salary	department...	department_na...	
▶	1	John Doe	101	60000.00	101	IT	
▶	2	Jane Smith	102	55000.00	102	HR	
▶	3	Alice Johnson	101	70000.00	101	IT	
▶	4	Bob Wilson	103	75000.00	103	Marketing	

Right outer join

```
348 • SELECT *
349 FROM employees
350 RIGHT JOIN departments ON employees.department_id = departments.department_id;
351
```

100% 1:351 5 errors found

Result Grid



Filter Rows:

Search

Export:



	employee_id	employee_name	department...	salary	department...	department_na...
▶	3	Alice Johnson	101	70000.00	101	IT
1	1	John Doe	101	60000.00	101	IT
	2	Jane Smith	102	55000.00	102	HR
4	4	Bob Wilson	103	75000.00	103	Marketing
	NULL	NULL	NULL	NULL	104	Finance

Exists operator-

```
236 • SELECT supplier_name
237 FROM supplier
238 WHERE EXISTS (SELECT product_name FROM product WHERE product.supplier_id = supplier.supplier_id AND price = 49.99);
239
```

100% 116:238 5 errors found

Result Grid



Filter Rows:

Search

Export:



	supplier_name
▶	XYZ Distributors

```
231 • SELECT supplier_name
232 FROM supplier
233 WHERE EXISTS (SELECT product_name FROM product WHERE product.supplier_id = supplier.supplier_id AND price < 20);
234
```

100% 113:233 5 errors found

Result Grid



Filter Rows:

Search

Export:



	supplier_name
▶	Global Traders
	Best Products Co.
	Top Distributors
	Prime Suppliers
	Elite Traders

Any operator-

```
250 • SELECT product_name
251 FROM product
252 WHERE product_id = ANY
253 (SELECT product_id
254 FROM orderdetails
255 WHERE quantity > 2);
256
```

100% 3:256 5 errors found

Result Grid Filter Rows: Search Export:

	product_name
▶	Widget A
▶	Gadget B
▶	Device X
▶	Tool C

```
243 • SELECT product_name
244 FROM product
245 WHERE product_id = ANY
246 (SELECT product_id
247 FROM orderdetails
248 WHERE quantity = 5);
```

100% 23:248 5 errors found

Result Grid Filter Rows: Search Export:

	product_name
▶	Widget A

All operator-

```
258 • SELECT ALL product_name
259 FROM product
260 WHERE TRUE;
```

100% 12:260 5 errors found

Result Grid Filter Rows: Search Export:

product_name	
Widget A	
Gadget B	
Tool C	
Device X	
Appliance Y	
Accessory Z	
Component P	
Supply Q	
Material R	
Product S	
product 14	

```
262 • SELECT product_name
263 FROM product
264 WHERE product_id = ALL
265 (SELECT product_id
266 FROM orderdetails
267 WHERE quantity = 10);
268
```

100% 24:267 5 errors found



Result Grid Filter Rows: Search Export:

product_name	
Widget A	
Gadget B	
Tool C	
Device X	
Appliance Y	
Accessory Z	
Component P	
Supply Q	
Material R	
Product S	

String functions-



return leftmost ascii value

```
270 • select ascii('CB');
```

100%	20:270	5 errors found
Result Grid   Filter Rows: <input type="text"/>		
ascii('CB')		
▶	67	



return ascii value to character

```
272 • select char(66);
```

100%	17:272	5 errors found
Result Grid   Filter Rows		
char(66)		
▶	BLOB	

return length

```
273 • select length('Microsift sql');
```

100%	32:273	5 errors found
Result Grid   Filter Rows: <input type="text" value="Search"/>		
length('Microsift sql')		
▶	13	

convert to lowercase

274 • `select lower('JHON');`

100% 22:274 5 errors found

Result Grid Filter Rows:

lower('JHON')	
▶	jhon

Replace

275 • `select replace('Microsoft sql','sql','server');`

100% 48:275 5 errors found

Result Grid Filter Rows: Search Export: 

replace('Microsoft sql','sql','ser...)	
▶	Microsoft server

reverse the string

276 • `select reverse('python');`

100% 26:276 5 errors found

Result Grid Filter Rows: Search

reverse('pytho...)	
▶	nohtyp

converts to upper

```
277 • select upper('yourname');
```

100% 26:277 5 errors found

Result Grid Filter Rows: Search

upper('yournam...
▶ YOURNAME

Date functions-

return value of date of that particular day

```
282 • select getdate ();/*get current date and time*/
283 • select dateadd (mm, 2, '2023-12-07');/*add months to existed date */
284 • select datediff ( year, convert (datetime, '2006-05-06'), convert ( datetime, '2009-01-01'));/*it will return the difference of date,months,years also*/
285 • select datepart (mm, '2008-5-22');/*return months value*/
286 • select day ( '2023-05-30');/*return value of date of that particular day*/
287 • select month ( '2023-05-31');/*return month value*/
288 • select year ( '2023-05-3');/*return year value*/
289
```

100% 28:286 5 errors found

Result Grid Filter Rows: Search Export: [icon]

day ('2023-05-...
▶ 30

Result Grid Form Editor

return month value

```
281 /* Date Functions*/
282 • select getdate ();/*get current date and time*/
283 • select dateadd (mm, 2, '2023-12-07');/*add months to existed date */
284 • select datediff ( year, convert (datetime, '2006-05-06'), convert ( datetime, '2009-01-01'));/*it will return the difference of date,months,years also*/
285 • select datepart (mm, '2008-5-22');/*return months value*/
286 • select day ( '2023-05-30');/*return value of date of that particular day*/
287 • select month ( '2023-05-31');/*return month value*/
288 • select year ( '2023-05-3');/*return year value*/
```

100% 29:287 5 errors found

Result Grid Filter Rows: Search Export: [icon]

month ('2023-05-...
▶ 5

Result Grid Form Editor

return year value

```
282 • select getdate ();/*get current date and time*/
283 • select dateadd (mm, 2, '2023-12-07');/*add months to existed date */
284 • select datediff ( year, convert (datetime, '2006-05-06'), convert ( datetime, '2009-01-01'));/*it will return the difference of date,months,years also*/
285 • select datepart (mm, '2008-5-22');/*return months value*/
286 • select day ( '2023-05-30');/*return value of date of that particular day*/
287 • select month ( '2023-05-31');/*return month value*/
288 • select year ( '2023-05-3');/*return year value*/
```

100% 28:288 5 errors found

Result Grid Filter Rows: Search Export: [icon]

year ('2023-05-...
▶ 2023



Result Grid Form Editor

Mathematical functions-

returns absolute value

292 • `select abs(-101);`

100% 1:292 5 errors found



Result Grid   Filter Rows:

	a...	
▶	101	

returns angle in radians

293 • `select sin(1.5);`

100% 1:293 5 errors found



Result Grid   Filter Rows:

	sin(1.5)	
▶	0.9974949866040544	

returns the smallest or greater to the specified value

294 • `select ceiling(14.01);`



100% 23:294 5 errors found

Result Grid   Filter Rows:

	ceiling(14....	
▶	15	

296 • `select floor(14.75);`

00% 21:296 5 errors found



Result Grid   Filter Rows:

	floor(14.75)	
▶	14	

returns the exponential value

295 • `select exp(4.5);`

100% 17:295 5 errors found



Result Grid   Filter Rows:

	exp(4.5)	
▶	90.01713130052181	

return logarithmic values

297 • `select log(5.4);`

100% 17:297 5 errors found

Result Grid   Filter Rows:

	log(5.4)	
▶	1.6863989535702288	