

Task 6 - Sales Analysis

Objective - Sales trend analysis using Aggregation

1. Monthly Revenue and Order Value

```
190 • SELECT
191     EXTRACT(YEAR FROM ORD_DATE) AS order_year,
192     EXTRACT(MONTH FROM ORD_DATE) AS order_month,
193     SUM(ORD_AMOUNT) AS total_revenue,
194     COUNT(DISTINCT ORD_NUM) AS total_orders
195 FROM ORDERS
196 GROUP BY order_year, order_month
197 ORDER BY order_year, order_month;
```

Result Grid	Filter Rows:	Export:	Wrap Cell
order_year	order_month	total_revenue	total_orders
2008	1	1000.00	1
2008	2	4000.00	1
2008	3	1500.00	1
2008	4	5500.00	2
2008	5	5500.00	3
2008	6	6200.00	4
2008	7	22500.00	11
2008	8	8900.00	3
2008	9	14700.00	6
2008	10	2800.00	2

2. Monthly report limited to year - 2008

```
199  -- Monthly report limited to specific year = 2008
200  •  SELECT
201      EXTRACT(MONTH FROM ORD_DATE) AS order_month,
202      SUM(ORD_AMOUNT) AS monthly_revenue,
203      COUNT(DISTINCT ORD_NUM) AS order_count
204  FROM ORDERS
205  WHERE EXTRACT(YEAR FROM ORD_DATE) = 2008
206  GROUP BY order_month
207  ORDER BY order_month;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ☐

	order_month	monthly_revenue	order_count
▶	1	1000.00	1
	2	4000.00	1
	3	1500.00	1
	4	5500.00	2
	5	5500.00	3
	6	6200.00	4
	7	22500.00	11
	8	8900.00	3
	9	14700.00	6
	10	2800.00	2

3. Orders of last 6 months




```
209  -- Last Six months of orders
210  •  SELECT
211      YEAR(ORD_DATE) AS order_year,
212      MONTH(ORD_DATE) AS order_month,
213      SUM(ORD_AMOUNT) AS total_revenue,
214      COUNT(DISTINCT ORD_NUM) AS total_orders
215  FROM ORDERS
216  WHERE ORD_DATE >= CURDATE() - INTERVAL 6 MONTH
217  GROUP BY YEAR(ORD_DATE), MONTH(ORD_DATE)
218  ORDER BY order_year DESC, order_month DESC;
219
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ☐

	order_year	order_month	total_revenue	total_orders
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4. Top 3 Revenue Months across all time


```
220      -- Top 3 revenue months across all time
221 •    SELECT
222          EXTRACT(YEAR FROM ORD_DATE) AS order_year,
223          EXTRACT(MONTH FROM ORD_DATE) AS order_month,
224          SUM(ORD_AMOUNT) AS total_revenue
225      FROM ORDERS
226      GROUP BY order_year, order_month
227      ORDER BY total_revenue DESC
228      LIMIT 3;
```


Result Grid		 Filter Rows: <input type="text"/>	Export: 	Wrap Cell Co
	order_year	order_month	total_revenue	
▶	2008	7	22500.00	
	2008	9	14700.00	
	2008	8	8900.00	

5. View for monthly salary

```
230      -- view for monthly salary
231 • CREATE OR REPLACE VIEW MonthlyOrderSummary AS
232      SELECT
233          EXTRACT(YEAR FROM ORD_DATE) AS order_year,
234          EXTRACT(MONTH FROM ORD_DATE) AS order_month,
235          SUM(ORD_AMOUNT) AS total_revenue,
236          COUNT(DISTINCT ORD_NUM) AS total_orders
237      FROM ORDERS
238      GROUP BY order_year, order_month
239      ORDER BY order_year, order_month;
240
241 • Select * from MonthlyOrderSummary;
242
```


Result Grid





Filter Rows:

Export:



Wrap Cell Co

	order_year	order_month	total_revenue	total_orders
▶	2008	1	1000.00	1
	2008	2	4000.00	1
	2008	3	1500.00	1
	2008	4	5500.00	2
	2008	5	5500.00	3
	2008	6	6200.00	4
	2008	7	22500.00	11
	2008	8	8900.00	3
	2008	9	14700.00	6
	2008	10	2800.00	2